

ರಾಜೀವ್‌ಗಾಂಧಿ ಆರೋಗ್ಯ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಕರ್ನಾಟಕ, ಬೆಂಗಳೂರು

Rajiv Gandhi University of Health Sciences, Karnataka

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MINIMUM STANDARD OF UNDERGRADUATE UNANI EDUCATION REGULATIONS-2022



No. RGU/AUTH/NOT1/UNA-BUMS/120/2022-23

Date: 11/10/2022

NOTIFICATION

Sub: National Commission for Indian System of Medicine (Minimum Standards of Undergraduate Unani Education) Regulations-2022 Implementation.

Ref: 1.National Commission for Indian System of Medicine Gazette

Notification date :28/02/2022

2.Proceedings of BOS Meeting held on 07/05/2022

3.Proceedings of 172nd Syndicate meeting held on 02-09-2022 & 05/09/2022

In exercise of the powers conferred under Section 35 of RGUHS Act, 1994 and as per the decision of Syndicate in its 172nd meeting held on 02-09-2022 & 05/09/2022, Implementation of the Gazette (Ref 1) about the minimum standards of Education in Indian System of Medicine for implementation in Unani Medical Colleges under Rajiv Gandhi University of Health Sciences is approved.

Hence, the National Commission for Indian System of Medicine (Minimum Standards of Undergraduate Unani Education) Regulations - 2022 regarding the course Curriculum for first Professional BUMS Shall be implemented from the academic

nic year 2021-2022 onwards.


REGISTRAR

To,

The Principals of all affiliated Unani Medical Colleges of RGUHS.

Copy to:

1. PA to Vice-Chancellor/PA to Registrar/Registrar (Eva)/Finance officer RGUHS, Bangalore
2. Deputy Registrar, Admission/Affiliation/Examination, RGUHS, Bangalore
3. Public information officer RGUHS, Bangalore
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5. Guard File/office copy

**THE NATIONAL COMMISSION FOR INDIAN SYSTEM OF MEDICINE
NOTIFICATION**

New Delhi, the 28th February, 2022.

F. No. 11-76/2021-BUSS (Unani-U.G Regl.).—In exercise of the powers conferred by sub-section (2) of section 55 of the **National Commission for Indian System of Medicine Act, 2020 (14 of 2020)**, the Commission hereby makes the following regulations, namely:-

1 Short title and commencement.- (1) These regulations may be called **National Commission for Indian System of Medicine (Minimum Standards of Undergraduate Unani Education), Regulations 2022.**

(2) They shall come into force on the date of their publication in the Official Gazette; **2 Definitions.-** (1) In these regulations, unless the context otherwise requires,-

- (i) “Act” means the National Commission for Indian System of Medicine Act, 2020 (14 of 2020);
- (ii) “Annexure” means an annexure appended to these regulations;
- (iii) “Appendix” means an appendix appended to these regulations.

(2) The words and expressions used herein and not defined but defined in the Act shall have the same meanings as respectively assigned to them in the Act.

3 Bachelor of Unani Medicine and Surgery programme.- The Bachelor of Unani education namely, the Bachelor of Unani Medicine and Surgery (B.U.M.S.) shall produce Graduates, having profound knowledge of Unani Medicine along with the contemporary advances in the field of Unani Medicine supplemented with knowledge of scientific and technological advances in modern sciences and technology along with extensive practical training, as an efficient physicians and surgeons for the health care services.

4 Eligibility for admission.- (1) The eligibility to seek admission in Bachelor of Unani Education (Bachelor of Unani Medicine and Surgery) shall be as under,-

- (a) The candidate shall have passed 10+2 or its equivalent examination from any recognised Board with Physics, Chemistry and Biology and shall have obtained a minimum of fifty per cent. marks taken together in Physics, Chemistry and Biology in the case of General category and forty per cent. marks in the case of the Scheduled Castes, Scheduled Tribes and Other Backward Classes:

Provided that in respect of persons with disability candidate specified under the Rights of Persons with Disabilities Act, 2016 (49 of 2016), the minimum qualifying marks in the said examinations shall be forty-five per cent. in the case of General category and forty per cent. in the case of the Scheduled Castes, Scheduled Tribes and Other Backward Classes.

- (b) candidate shall have passed Urdu or Arabic or Persian language as one of the subjects in the 10th Standard or in 12th Standard.
- (c) candidate who is not covered under clause (b) shall have to study Urdu language along with Arabic and Mantiq wa Falsafa (Logic and Philosophy) as a subject during the First Professional B.U.M.S. session.
- (d) The Pre-Tib examination shall be for one-year duration.

(i) Admission to Pre-Tib Programme.- A candidate seeking admission to one year Pre-Tib programme shall have passed:-

(A) The oriental qualification equivalent to Intermediate Examination (10+2) as specified as per the following table, namely:-

Table-1

List of Oriental qualification in Arabic Persian equivalent to Higher Secondary or Intermediate or 12th Standard for the purpose of admission to Pre-Tib programme of the Unani degree programme:

Sl.No.	Name of Institution	Qualification
1.	Lucknow University	Fazil-e-Adab (or) Fazil-e-Tafseer
2.	Darul Uloom Nadvatul-Ulama, Lucknow	Fazil
3.	Darul Uloom, Deoband, Distt. Saharanpur	Fazil
4.	Al-Jameat-ul Salfia, Markazi Darul-Uloom, Varanasi	Fazil
5.	Board of Arabic and Persian Examination, Uttar Pradesh Allahbad or Uttar Pradesh Madarsa Shiksha Parishad, Lucknow	Fazil
6.	Madarsa Faize Aam, Mau Nath Bhajan, Azamgarh (Uttar Pradesh)	Fazil
7.	Darul Hadees, Mau Nath Bhajan, Azamgarh (Uttar Pradesh)	Fazil
8.	Jameat-ul-Falah, Bilaria Ganj Azamgarh (Uttar Pradesh)	Fazil
9.	Darul Uloom Ashrafia Misbahul Uloom, Mubarakpur, Azamgarh (Uttar Pradesh)	Fazil
10.	Jamia Sirajul Uloom, Bondhiyar, Gonda (Uttar Pradesh)	Fazil
11.	Jamia Farooqia Sabrabad, via Shahganj, DIstt. Jaunpur (Uttar Pradesh)	Fazil
12.	Madras University	Adeeb-e-Fazil
13.	Darul Uloom Arabic College, Meerut City (Uttar Pradesh)	Fazil
14.	Madarsa Mazahir Uloom, Saharanpur (Uttar Pradesh)	Fazil
15.	Government Madrasa-e-Alia, Rampur	Fazil
16.	Al-Jamiatul Islamia, Noor Bagh, Thane, Mumbai	Fazil
17.	Al-Jamiat-ul Mohammediya, Mansoor, Malegaon	Fazil
18.	Al-Jamiatul Islamia Is-hat-ul-Uloom, Akkalkuan, Distt. Dhulia	Fazil
19.	Bihar Rajya Madarsa Shiksha Baord, Patna	Fazil
20.	Jamia-tus-Salehat, Rampur (Uttar Pradesh)	Fazil
21.	Madrasa-tul-Islah, Saraimir, Azamgarh (Uttar Pradesh)	Fazil
22.	Jamia Darus Salam, Malerkotla (Punjab)	Fazil
23.	Khairul Uloom, Al-Jamiatul Islamia, Domaria Ganj, Distt. Siddharth Nagar (Uttar Pradesh)	Fazil

24.	Madarsa Darul Huda, Yusufpur, via Naugarh, Distt. Siddharth Nagar (Uttar Pradesh)	Fazil
25.	Jamia Islamia Almahad Okhla, New Delhi or Jamia Islamia Sanabil, Abul Fazal Enclave - II, New Delhi	Fazil
26.	Darul Uloom Arabiyyah Islamia, post Kantharia, Bharuch (Gujarat)	Fazil
27.	Darul Uloom Rashidia, Nagpur, Maharashtra	Fazil
28.	Darul Uloom Alimia, Jamda Shahi, Distt. Basti, Uttar Pradesh	Fazilat

Or

(B) The Oriental qualification equivalent to Intermediate Examination (10+2) recognised by the State Government or State Education Board concerned.

(ii) Admission through Pre-Tib Programme: Admission may be made on maximum of ten per cent. seats per year out of the total number of intake capacity permitted for Kamile Tib o Jarahat (Bachelor of Unani Medicine and Surgery – B.U.M.S.) to main programme through Pre-Tib programme and rest of the seats may be filled up by following the eligibility criteria mentioned in clauses (a), (b) and (c) of sub-regulation (1) of regulation 4.

(e) No candidate shall be admitted to B.U.M.S. Degree programme unless he has attained the age of seventeen years on or before the 31st December of the year of his admission in the first year of the programme and not more than twenty-five years on the 31st December of the year of admission in the first year of the programme:

Provided that the upper age-limit may be relaxed by five years in the case of Scheduled Castes, Scheduled Tribes, Other Backward Classes and disabled candidates.

(2) **National Eligibility-cum-Entrance Test.-** (i) There shall be a uniform entrance examination for all medical institutions at the under-graduate level, namely, the National Eligibility-cum-Entrance Test (NEET) for admission to under-graduate programme in each academic year and shall be conducted by an authority designed by the National Commission for Indian System of Medicine.

Provided that the NEET shall not be applicable to Pre-Tib candidates as per the clause (i) of subsection (1) under section 14 of National Commission for Indian System of Medicine Act, 2020 (14 of 2020).

(ii) In order to consider for admission to under-graduate programme for an academic year, it shall be necessary for a candidate to obtain minimum of marks at 50th percentile in the National Eligibility-cumEntrance Test for under-graduate programme held for the said academic year:

Provided that in respect of,-

(iii) candidates belonging to the Scheduled Castes, Scheduled Tribes and Other Backward Classes, the minimum marks shall be at 40th percentile;

(iv) candidates with specified disabilities under the Rights of Persons with Disabilities Act, 2016 (49 of 2016), the minimum marks shall be 45th percentile in the case of General category and 40th percentile in the case of the Scheduled Castes, Scheduled Tribes and Other Backward Classes:

Provided further that where sufficient number of candidates in the respective category fail to secure minimum marks in the National Eligibility-cum-Entrance Test held for any academic

year for admission to under-graduate programme, the National Commission for Indian System of Medicine in consultation with the Central Government may at its discretion lower the minimum marks required for admission to under-graduate programme for candidates belonging to respective category and marks so lowered by the Central Government shall be applicable for that academic year only.

- (3) An All-India common merit list as well as State-wise merit list of the eligible candidates shall be prepared on the basis of the marks obtained in the National Eligibility-cum-Entrance Test and the candidates, within the respective category shall be considered for admission to under-graduate programme from the said merit lists only.
- (4) The seat matrix for admission in the Government, Government-aided Institution and Private Institution shall be fifteen per cent. for the All-India Quota and eighty-five per cent. for the State and Union territory quota:

Provided that,-

- (v) the All-India Quota for the purpose of admission in all the deemed university both Government and private shall be hundred per cent.;
- (vi) the university and institute which are already having more than fifteen per cent. All-India Quota seats shall continue to maintain that quota;
- (vii) five per cent. of the annual sanctioned intake capacity in Government and Government-aided Institution shall be filled up by candidate with specified disability in accordance with the provisions of the Rights of Persons with Disabilities Act, 2016 (49 of 2016) and based on the merit list of National Eligibility -cum-Entrance Test.

Explanation.- For the purpose of this clause, the specified disability contained in the Schedule to the Rights of Persons with Disabilities Act, 2016 (49 of 2016) specified in *Appendix "A"* and the eligibility of candidate to pursue a programme in Indian Systems of Medicine with specified disability shall be in accordance with the guidelines specified in *Appendix "B"* and if the seats reserved for the persons with disabilities in a particular category remain unfilled on account of unavailability of candidates, the seats shall be included in the annual sanctioned seats for the respective category.

- (5) (i) The designated authority for counseling of State and Union territory quota for admissions to undergraduate programme in all Unani Educational Institutions in the States and Union territories including institutions established by the State Government, University, Trust, Society, Minority Institution, Corporation or Company shall be the respective State or Union Territory in accordance with the relevant rules and regulations of the concerned State or Union territory, as the case may be.
(ii) The counseling for all admission to Bachelor of Unani Medicine and Surgery Programme for hundred per cent. seats of all Deemed Universities both Government and Private shall be conducted by the authority designated by the Central Government in this behalf.
- (6) The counselling for admission to Bachelor of Unani Medicine and Surgery Programme for seat under All-India Quota as well as for all Unani Educational Institutions established by the Central Government shall be conducted by the authority designated by the Central Government in this behalf.
- (7) (i) All seats irrespective of category (Central quota, State quota or Management etc.) except foreign nationals are to be admitted through counseling (Central or State or Union Territory) only. Direct admission by any means other than above specified shall not be approved.
(ii) The institution shall have to submit the list of students admitted in the format specified by National Commission of Indian System of Medicine on or before 6 pm on the cut-off date

for admission specified by National Commission for Indian System of Medicine from time to time for verification.

- (iii) Universities shall approve the admission of those candidates (except foreign nationals) who have been allotted through counseling (Central or State or Union Territory) as the case may be.
- (8) No candidate who has failed to obtain the minimum eligibility marks under this regulation shall be admitted to under-graduate programme in the said academic year.
- (9) No authority or institution shall admit any candidate to the under-graduate programme in contravention of the criteria or procedure laid down in these regulations in respect of admission and any admission made in contravention of the said criteria or procedure shall be cancelled by the National Commission for Indian System of Medicine forthwith.
- (10) The authority or institution which grants admission to any student in contravention of the criteria or procedure laid down in these regulations shall be liable accordingly, under the relevant provisions of the Act.
- (11) For foreign national candidates any other equivalent qualification approved by the Central Government may be allowed and sub-regulation (2) of regulation 4 shall not be applicable.

5 Duration of B.U.M.S. programme.- (i) Pre-Tib programme: The duration of Pre-Tib programme shall be one year.

(ii) The duration of the B.U.M.S. programme shall be five years and six month as per the following table, namely:-

Table – 2 (Duration of B.U.M.S Programme)

Sl. No.	B.U.M.S programme	Duration
(a)	First Professional B.U.M.S	Eighteen Months
(b)	Second Professional B.U.M.S	Eighteen Months
(c)	Third (Final) Professional B.U.M.S	Eighteen Months
(d)	Compulsory Rotatory Internship	Twelve Months

6 Degree to be awarded.- The candidate shall be awarded Kamile Tib o Jarahat (Bachelor of Unani Medicine and Surgery – B.U.M.S.) Degree after passing all the examinations and completion of the laid down programme of study extending over the laid down period and the compulsory rotatory internship extending over twelve months and the nomenclature of Degree shall be **Kamile Tib o Jarahat (Bachelor of Unani Medicine and Surgery – B.U.M.S.)**.

7 Medium of instruction.- The medium of instruction for the programme shall be Urdu or Hindi or any recognised regional language or English:

Provided that, in case, if any institute is admitting student from different states or international students, the medium of instruction shall be English.

8 Pattern of study.- (1) The B.U.M.S programme shall consist of **Main Programme** and **Electives** and the pattern of study shall be followed in the following manner, namely:-

(A) (i) (a) After admission the student shall be inducted to the B.U.M.S programme through an Induction Programme not less than fifteen working days based on the Transitional Curriculum which intends to introduce newly admitted student to Unani system of Medicine and to make him well aware of the B.U.M.S. programme he is going to study for next four and half years.

(b) During the induction programme, the student of Unani shall learn basics of Urdu or Persian or Arabic for Unani, basic life support and first aid along with other subject as laid down in the syllabus.

(c) There shall be fifteen days induction programme which shall be not less than ninety hours and every day may consist of six hours.

(ii) Total working days for each professional session shall be not less than three hundred and twenty days.

(iii) (a) Total working days for the First Professional session shall be not less than three hundred and five days except for fifteen days for the induction programme.

(b) total teaching hours for First Professional session shall be not less than 1920, and proportion of teaching hours in Lecture to Non-lecture shall be 1:2.

(iv) (a) Total teaching hours for Second Professional session shall be not less than 2240 and the proportion of teaching hours in Lectures to Non-lectures shall be 1:2.

(b) During the Second Professional Session at least one hour of clinical classes per day during morning hours at Hospital Outpatient Department (OPD) or Inpatient Department (IPD) or Laboratory or Pharmacy or Dispensary shall be conducted to make the students have acquaintance with the related activities.

(v) Total teaching hours for Third (Final) Professional session shall be not less than 2240 and during the Third (Final) Professional Session, three hours of clinical classes at Hospital during morning hours shall be conducted and the proportion of teaching hours in Lecture to Non-Lecture hours shall be 1:2.

(vi) Working hours may be increased by the University or institution as per requirement to complete the stipulated period of teaching and requisite activities.

Explanation.- For the purposes of this regulation the expression “**Lectures**” means Didactic teaching i.e., classroom teaching and the expression “**Non-lectures**” includes Practical / Clinical and

Demonstrative teaching and the Demonstrative teaching includes Small group teaching / Tutorials / Seminars / Symposiums / Assignments / Role play / Pharmacy training / Laboratory training / Dissection / Field visits / Skill lab training / Integrated learning / Problem based learning / Case based learning / Early clinical exposure / Evidence based learning etc. as per the requirement of the subject and in Non-lectures, the Clinical / Practical part shall be 70 per cent. and Demonstrative teaching shall be 30 per cent.

(vii) There shall be minimum of one hour each for library and physical education per week and one hour of recreation (expression of talent and extra-curricular activities) per month has to be allotted in the regular time table of all batches.

(B) The First Professional session shall ordinarily start in the month of October and the following subjects shall be taught as per the syllabus laid down by the National Commission for Indian System of Medicine from time to time, namely:-

Table – 3 (Subjects for First Professional B.U.M.S.)

Sl. No.	Subject code	Subject	Equivalent Terms
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1.	UNIUG-UAMF	Urdu, Arabic and Mantiq wa Falsafa	Urdu, Arabic, Logic and Philosophy
2.	UNIUG-KUT	Kulliyat Umoore Tabiya	Basic Principles of Unani Medicine
3.	UNIUG-TB	Tashreehul Badan	Human Anatomy
4.	UNIUG-MZ	Manafeul Aza	Human Physiology
5.	UNIUG-TT	Tareekhe Tib	History of Medicine
6.	Electives (Minimum three) Subjects		

(C) The Second Professional Session shall ordinarily start in the month of April after completion of First Professional examination and the following subjects shall be taught as per the syllabus laid down by the National Commission for Indian System of Medicine from time to time, namely:-

Table – 4

(Subjects for Second Professional B.U.M.S.)

Sl. No.	Subject code	Subject	Equivalent Terms
1.	UNIUG-IA	Ilmul Advia	Pharmacology
2.	UNIUG-ISM	Ilmul Saidla wa Murakkabat	Unani Pharmacy and Compound Drugs
3.	UNIUG-TST	Tahaffuzi wa Samaji Tib	Preventive and Social Medicine
4.	UNIUG-MA	Mahiyatul Amraz	Pathology
5.	UNIUG-TQS	Ilme Tibbe Qanoon wa Ilmul Samoom	Medical Jurisprudence and Toxicology
6.	UNIUG-SUI	Sareeriyat wa Usoole Ilaj	Bed side Clinic and Principles of Management
7.	Electives (Minimum three) Subjects		

(D) The Third (Final) Professional session shall ordinarily start in the month of October after completion of Second Professional examination and the following subjects shall be taught as per the syllabus laid down by the National Commission for Indian System of Medicine from time to time, namely:- **Table – 5**

(Subjects for Third (Final) Professional B.U.M.S.)

Sl. No.	Subject code	Subject	Equivalent Terms
1.	UNIUG-MOA	Moalajat	Medicine
2.	UNIUG-QAN	Ilmul Qabalat wa Amraze Niswan	Obstetrics and Gynaecology
3.	UNIUG-IJ	Ilmul Jarahat	Surgery
4.	UNIUG-AUH	Amraze Ain, Uzn, Anf, Halaq wa Asnan	Ophthalmology, ENT and Dentistry
5.	UNIUG-AJT	Amraze jild wa Tazeeniyat	Dermatology and Cosmetology

6.	UNIUG-IBT	Ilaj bit Tadabeer	Regimenal Therapy
7.	UNIUG-AAN	Amraze Atfal wa Naumaulood	Paediatrics and Neonatology
8.	UNIUG-RMS	Research Methodology and Medical Statistics	
9.	Electives (Minimum three) Subjects		

(E) University; Institution and College shall prepare an Academic Calendar of that particular batch in accordance with the template of tentative Academic Calendar provided in these regulations in **Annexure - I** and the same shall be circulated to students and hosted in respective websites and followed accordingly.

(F) The B.U.M.S. programme shall consist of following Departments and subjects, namely:-

Table – 6 (Departments and Subjects)

Sl. No.	Departments	Subjects
1.	Kulliyat	4. Urdu, Arabic and Mantiq wa Falsafa 5. Kulliyat Umoore Tabiya 6. Tareekhe Tib
2.	Tashreehul Badan	Tashreehul Badan
3.	Manafeul Aza	Manafeul Aza
4.	Ilmul Advia	Ilmul Advia
5.	Ilmul Saidla	Ilmul Saidla wa Murakkabat
6.	Mahiyatul Amraz	Mahiyatul Amraz
7.	Tahaffuzi wa Samaji Tib	4. Tahaffuzi wa Samaji Tib 5. Ilme Tibbe Qanoon wa Ilmul Samoom 6. Research methodology and medical statistics
8.	Moalajat	3. Moalajat 4. Sareeriyat wa Usoole Ilaj
9.	Qabalat wa Niswan	Ilmul Qabalat wa Amaraze Niswan
10.	Ilmul Atfal	Amraze Atfal wa Naumaulood
11.	Jarahat	Ilmul Jarahat
12.	Ain, Uzn, Anaf, Halaq wa Asnan	Amraze Ain, Uzn, Anaf, Halaq wa Asnan
13.	Amraze Jild wa Tazeeniyat	Amraze Jild wa Tazeeniyat
14.	Ilaj bit Tadabeer	Ilaj bit Tadabeer

(G) **Electives.**- (i) Electives are introduced in B.U.M.S curriculum to provide opportunity to student of Unani to get introduced, exposed and oriented to various allied subjects that are required to understand and build inter-disciplinary approach.

(ii) The electives shall be conducted as online programme.

(iii) Each elective subject shall be of forty-five hours duration and divided in five modules and each module shall have nine hours i.e., five hours of teaching, two hours of guided learning, one hour each for expert interaction/reflection and assessment and in total, each elective will

have twenty five hours of teaching, ten hours of guided learning, five hours of expert interaction/reflection and five hours of assessment (five assessments of one hour each).

Explanation.- For the purpose of this regulation, Teaching means video lectures, Power point presentations, audio lectures, video clippings, audio clippings, technical images, study material etc.

(iv) The study hours for electives are over and above the prescribed teaching hours of B.U.M.S. under

these regulations.

(H) Clinical training.- (i) Clinical training of the student shall start from the First Professional session onwards and subject related clinical training shall be provided in the attached hospital by the concerned faculty and department in non-lecture hours (in addition to regular practical and demonstrative teaching) as per the requirement of the subject as under-

(a) application of Unani fundamental principles and medical ethics in Inpatient Department (IPD) and Outpatient Department (OPD) patients, Unani diagnostic and prognostic methods, orientation on basic properties of drug and drug selection method, Unani way of case sheet writing, patient registration, communication with patients etc. by the Department of Kulliyat and Language faculty;

(b) clinical and applied physiology in clinical conditions, training in the assessment of vital signs including pulse rate, respiratory rate, body temperature, blood pressure, measurement of height and weight, calculation of Body Mass Index (BMI), reading Electrocardiography (ECG), hematological test procedures etc., application of Unani basic principles in Inpatient Department (IPD) or Outpatient Department (OPD) cases, case sheet writing in Unani aspect etc. by the Department of Manafeul Aza;

(c) applied anatomy in clinical conditions, application of posture for clinical examination, surface anatomy, abdomen quadrants and localization, location of blood vessels, examination of muscle movements and integrity, reading X-ray, Computerised Tomography (CT) and Magnetic Resonance Imaging (MRI) etc. by the Department of Tashreehul Badan; and

(d) laboratory oriented training in biochemical, microbiological investigations, laboratory reports of Inpatient Department (IPD) or Outpatient Department (OPD) cases-interpretations- and its clinical correlation etc. by biochemistry and microbiology faculty.

(ii) (a) Clinical training for the Second Professional session shall be conducted as per clause A (iv) of sub regulation (1) of regulation 8 and attendance shall be maintained by the concerned faculty and department.

(b) Clinical training for the Second professional session shall be provided in accordance with the requirement of subjects as under-

(A) diagnosis and assessment of prognosis through practicing different diagnostic methods

(Unani) and fundamental principles in patients by practicing Nabz, Baul o Baraz, assessment of Mizaj (body temperament), laboratory investigations-interpretations-and its clinical correlation, training in screening OPD etc; by the Department of Mahiyatul Amraz;

(B) preventive medicines and measures, prescription of Ghiza or Parhez, therapeutic diet for In-Patient Department (IPD) and Out-Patient Department (OPD), culinary medicine, functional food, application of Asbabe Sittah Zarooriyah (six essential factors) in life style management, research perspectives of clinical cases, orientation and training in case sheet writing, diagnosis and treatment of OPD and IPD cases, adverse drug reactions

and anti-dotes, hospital pharmacy training, medico-legal aspects, medical related certificates etc. by the Department of Tahaffuzi wa Samaji Tib;

(C) orientation in prescription patterns, medicine names, forms, dosage, badarqa (vehicles), Muavin Dawa (adjuvant drugs), Muddate Hayat (shelf life of drugs) method of mixing or compounding of medicines, procurement of fresh herbs for hospital use, preparation of simple medicines used in the hospital, teaching pharmacy training etc. by the Department of Ilmul Advia wa Ilmul Saidla; and

(D) Bedside Clinic and principles of management by the concerned subject teacher.

(iii) The Clinical training, during the third (Final) Professional session as mentioned under clause A (v) of sub regulation (1) of regulation 8 shall be on rotation basis in the following departments, namely:-

- (a) Moalajat (Medicine): In-Patient Department (IPD), Out-Patient Department (OPD) and specialty clinics functioning under the department if any;
- (b) Qabalat wa Niswan (Obstetrics and Gynaecology): In-Patient Department (IPD), Out-Patient Department (OPD), Labour room, Procedural room and specialty clinics functioning under the department if any;
- (c) Jarahat (Surgery): In-Patient Department (IPD), Out-Patient Department (OPD), Operation Theatre and specialty clinics functioning under the department if any;
- (d) Ain, Uzn, Anf, Halaq wa Asnan (Ophthalmology, ENT and Dentistry): In-Patient Department (IPD), Out-Patient Department (OPD) and specialty clinics functioning under the department if any ;
- (e) Amraze Jild wa Tazeeniyat (Dermatology and Cosmetology): In-Patient Department (IPD), Out-Patient Department (OPD) and specialty clinics functioning under the department if any;
- (f) Ilaj bit Tadabeer (Regimenal therapy): In-Patient Department (IPD), Out-Patient Department (OPD) and specialty clinics functioning under the department if any;
- (g) Ilmul Atfal (Paediatrics): In-Patient Department (IPD), Out-Patient Department (OPD) and specialty clinics functioning under the department if any; and
- (h) Isabat (Emergency Medicine or Causality) under Department of Moalajat.

9 Methodology for supplementing modern advances, scientific and technological development in Indian

System Of Medicine (SMASSTD-ISM).-

(1) To accomplish the requirement under subsection (h) of section 2 of National Commission for Indian System of Medicine Act 2020 regarding, supplementation of modern advances, scientific and technological developments in Indian System of Medicine (SMASSTD-ISM), all the fourteen departments as mentioned in clause (F) of sub-regulation (1) of regulation 8, shall be treated as fourteen verticals in addition there shall be two more verticals one each for education and research and each vertical shall be supplemented, enriched and updated with relevant and appropriate advances and developments in the area of diagnostic tools, conceptual advancements and emerging area as under-

- (i) Innovations or advances or new developments in Basic Sciences like Biology, Chemistry, Physics, Mathematics, Microbiology, Biochemistry, Anatomy, Physiology, Medicinal Botany and Pharmacognacy, Bioinformatics, Molecular Biology, Immunology etc.;
- (ii) Diagnostic advancements;

- (iii) Therapeutic technology;
 - (iv) Surgical technique or technology;
 - (v) Pharmaceutical technology including Quality and Standardisation of drugs, drug development etc.;
 - (vi) Teaching, Training methods and Technology;
 - (vii) Research methods, Parameters, Equipment and Scales etc.;
 - (viii) Technological advancements, Automation, Software, Artificial Intelligence, Digitalisation, Documentation etc.;
 - (ix) Biomedical advancements;
 - (x) Medical Equipment;
 - (xi) any other innovations, advances, technologies and developments that are useful for understanding, validating, teaching, investigations, diagnosis, treatment, prognosis, documentation, standardisation and conduction of research in Unani.
- (2) There shall be multidisciplinary core committee constituted by National Commission for Indian System of Medicine for the purpose of supplementation of modern advances, scientific and technological developments in Indian System of Medicine, that identify the advances and developments that are suitable and appropriate to include in any one or multiple verticals.
 - (3) There shall be an expert committee for each vertical constituted by Board of Unani, Siddha and Sowa Rigpa to define and suggest the method of adaptation and incorporation of the said advances and developments and also specify the inclusion of the same at under-graduate or post-graduate level and the expert committee shall develop detailed methodology for usage, standard operating procedure and interpretation as required.
 - (4) Any teaching staff, practitioner, researchers, students and innovators etc. may send their suggestions through a portal specified by National Commission for Indian System of Medicine regarding supplementation of modern advances, scientific and technological developments in Indian System of Medicine and such suggestions shall be placed before core committee for consideration.
 - (5) The modern advances shall be incorporated with due interpretation of the said advances based on the principles of Unani supported by the studies and after five years of inclusion of such advances in syllabus, they shall be considered as part of Unani and will be defined and described in Unani terminology.
 - (6) Once core committee approves the recommendations of the expert committee, National Commission for Indian System of Medicine shall direct the Board of Unani, Siddha and Sowa Rigpa to include the same in curriculum of under-graduate or post-graduate as specified by expert committee and the commission shall issue guidelines or if required conduct orientation of teachers for incorporation of the recommended modern advancement or scientific and technological development.
 - (7) The proportion of modern advances with that of Unani teaching contents shall not exceed 40 percent.
 - (8) **Composition of the Committees for SMASTD-ISM.-** There shall be a Core Committee and an Expert Committee for each vertical and the composition of such committees shall be as under-
 - (a) **Composition of SMASTD-ISM Core Committee (Unani).-**

The SMASTD-ISM shall be eleven-member committee comprises of,

- (i) President, Board of Unani, Siddha and Sowa Rigpa – Chairperson;
- (ii) two experts from Unani (1 expert from Kulliyat – basic principles of Unani Medicine) – members;
- (iii) one expert (either retired or in service) each from CSIR, CCRUM, ICMR, DBT, Technocrat, Biomedical Engineering – member;
- (iv) one Educational Technologist – member;
- (v) member of Board of Unani, Siddha and Sowa Rigpa – Member Secretary.

Provided that the core committee can co-opt any expert as per the specific needs with the due permission of the Chairman, National Commission for Indian System of Medicine.

Terms of Reference - (i) The term of the committee shall be three years from the date of its constitution.

- (ii) The committee shall meet at least twice in a year.
- (iii) The committee shall identify any modern advances, scientific and technological developments as listed above that are relevant and applicable to Unani either to,-
 - (A) understand, validate, or for conduction of research activities in Unani;
 - (B) useful for diagnosis or prognostication of a specific clinical condition and treatment;
 - (C) useful for teaching and training;
 - (D) useful for health care services through Unani.
- (iv) The committee shall ensure the applicability of the identified modern advancement or scientific and technological development to basic principles of Unani with the help of two experts from Unani.
- (v) To identify and recommend suitable experts for the Expert Committee to develop methodology for identification of modern advance or development.
- (vi) To suggest the application of the advances or developments in terms its usage in specific vertical or to incorporate in under-graduate or post-graduate syllabus etc. as the case may be.
- (vii) As the modern science and technology is ever changing, the core committee shall identify the outdated part of the modern science and technology and suggest National Commission for Indian System of Medicine to replace it with the appropriate modern advances.

(b) Composition of Expert Committee (Unani).-

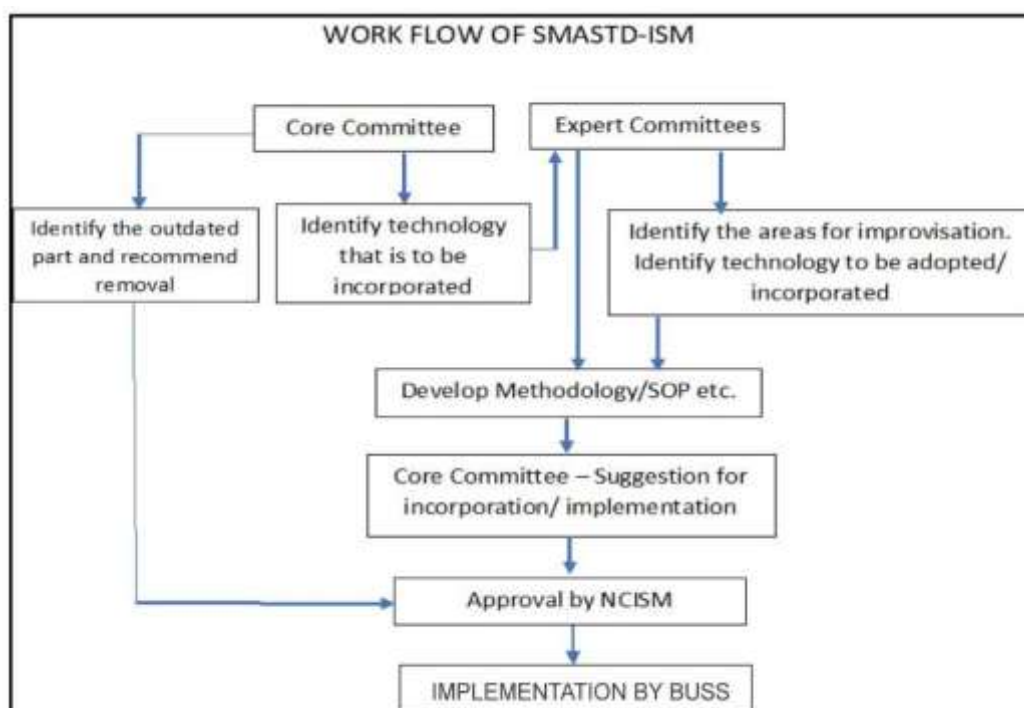
The Expert Committee shall be constituted by Board of Unani, Siddha and Sowa Rigpa; comprise of five members as under-

- (i) Subject Expert as decided by Board of Unani, Siddha and Sowa Rigpa – Chairperson;
- (ii) two experts from relevant Unani subjects – members;
- (iii) one expert from relevant modern subject – member; (iv) one expert from teaching technology – member.

Provided that the Expert Committee can co-opt concerned expert in accordance to the selected area with the permission of President, Board of Unani, Siddha and Sowa Rigpa.

Terms of Reference.- (i) The term of the committee shall be three years from the date of its constitution.

- (ii) The committee shall meet as many times as per the direction of the President Board of Unani, Siddha and Sowa Rigpa (BUSS).
- (iii) The committee shall work on the suggestion from the core committee and decide how to incorporate it in the syllabus, its mode of teaching (i.e., lecture/non-lecture) and the assessment with the help of educational technologist.
- (iv) The committee shall first understand the application of modern advances that are identified to incorporate and its relevance to the basic principles of Unani.
- (v) The committee shall also identify the need of advance technology in Unani particular to that vertical and identify the suitable technology and recommends its usage along with standard operating procedure or methodology.
- (vi) The committee shall suggest core committee regarding the modern advances and technology to be included at under-graduate or post-graduate level.
- (vii) The work flow of the SMASTD-ISM shall be as under -.



10 Examination.- (a) (i) The First Professional examination shall ordinarily be held and completed by the end of First Professional session;

(ii) the student who failed in one or two subjects of First Professional shall be allowed to keep terms of the Second Professional session and to appear in Second Professional examination;

(iii) the student who failed in more than two subjects shall not be allowed to keep term in Second Professional session and the subsequent supplementary examinations of First Professional shall be held at every six months.

(b) (i) The Second Professional examination shall ordinarily be held and completed by the end of Second

Professional session;

- (ii) the student who failed in one or two subjects of Second Professional shall be allowed to keep the terms of the Third (Final) Professional session;
 - (iii) the student who fail in more than two subjects shall not be allowed to keep terms in Third (Final) Professional session and the subsequent supplementary examinations of Second Professional shall be held every six months.
- (c) (i) The Third (Final) Professional examination shall ordinarily be held and completed by the end of Third (Final) Professional session;
- (ii) before appearing for Third (Final) Professional examination, the students shall have to pass all subjects of First and Second Professional and shall qualify nine electives;
 - (iii) the subsequent supplementary examination of Third (Final) Professional shall be held every six months.
- (d) There shall be no separate class for odd batch student (those students who could not keep the term) and the student have to attend the class along with regular batch or with junior batch as applicable.
- (e) To become eligible for joining the Compulsory Rotatory Internship programme, all three professional examinations shall be passed and qualified in nine electives within a period of maximum ten years from the date of admission.
- (f) The theory examination shall have twenty per cent. marks for Multiple-Choice Questions (MCQ),
forty per cent. marks for Short Answer Questions (SAQ) and forty per cent. marks for Long Explanatory Answer Questions (LAQ) and these questions shall cover the entire syllabus of the subject.
- (g) The minimum marks required for passing the examination shall be fifty per cent. in theory component and fifty per cent. in practical component (that include practical and clinical, viva-voce, internal assessment and electives wherever applicable) separately in each subject.
- (h) **Evaluation of electives.**- Electives shall be evaluated in terms of attendance and assessment and on the basis of evaluation, the student shall be awarded credits as well as grades as under-
- (i) one credit shall be awarded for attending minimum five hours of a modular programme and a student can earn maximum five credits for each elective;
- (ii) assessment shall be conducted at the end of each module and average of five modular assessments shall be considered for grading i.e., up to 25 per cent. Bronze; 26-50 per cent. Silver; 51-75 per cent. Gold; 76 per cent. and above Platinum.
 - (iii) The structure of elective shall be as per the following table, namely:- **Table -**

7

(Structure of Elective)

Each Elective: Five Modules of Nine Hours Each (5*9=45)					
Sl.No	Component	Duration (Hours)		Credits	Grades
		Module	Elective		
1	Teaching	5	25	One Credit for attending minimum	

2	Guided Learning	2	10	of five hours of each modular programme. Maximum five credits	Grade is awarded on the basis of average of all five modular assessments. Bronze: <25 per cent. Silver: 26-50 per cent. Gold: 51-75 per cent. Platinum: 76 per cent. & above.
3	Expert Interaction/ Reflection	1	5		
4	Assessment	1	5		

(iv) (a) Student shall have to qualify (obtaining any grade) minimum of three elective subjects for each professional session.

(b) List of elective subjects shall be made available under three sets (A, B and C) for each professional session i.e., sets FA, FB and FC for first professional B.U.M.S; sets SA, SB and SC for second professional B.U.M.S; sets TA, TB and TC for third professional B.U.M.S.

(c) Student may opt any one elective as per their choice from each set specified for respective professional B.U.M.S.

(d) Weightage of two marks for each credit and maximum of ten marks shall be awarded for each elective.

(e) These elective marks shall be added to the viva-voce marks of respective subjects as specified in these regulations.

(f) Apart from three mandatory electives for each profession, students have freedom to choose and qualify as many numbers of additional electives as per their interest.

(g) Marks weightage shall be only for three electives per professional session i.e., one elective subject from each set of respective professional session.

(h) A separate online certificate shall be generated for each elective mentioning credits earned and grades obtained.

(v) The examination branch of the institution shall compile the marks of electives obtained by students as specified above and submit to university through Head of the Institution so that the university shall add the same in viva-voce of respective subjects as shown in **Tables 12, 14 and 16.**

(i) (i) A candidate obtaining sixty-five per cent. and above marks shall be awarded first class in the subject and seventy-five per cent. and above marks shall be awarded distinction in the subject.

(ii) The award of class and distinction shall not be applicable for supplementary examinations.

(j) (i) Each student shall be required to maintain minimum seventy-five per cent. attendance in each subject in theory (i.e., lecture hours), practical and clinical (i.e., non-lecture hours) separately for appearing in examination.

(ii) Where the institute maintains physical attendance register, it shall be recorded in cumulative numbering method as per **Annexure-II** and at end of the course/term/part of the course, after obtaining each student signature the same is to be certified by respective Head of the Department and approved by Head of the Institute.

(iii) The approved attendance shall be forwarded to university.

- (k) If a student fails to appear in regular examination for cognitive reasons, he may appear in supplementary examination as regular student and his non-appearance in regular examination shall not be treated as an attempt.
- (l) Notwithstanding anything contained in these regulations,-
- (i) clause 10(e) shall be applicable to the student who got admitted under Indian Medicine Central Council (Minimum Standards of Education in Indian Medicine) Regulations, 1986, except electives and as per section 4 of SCHEDULE III (as amended vide notification no. 11-76/2016-Unani (U.G Regl.) Regulations, 2016) with 4 professionals.
- (ii) student who got admitted under Indian Medicine Central Council (Minimum Standards of Education in Indian Medicine) Regulations, 1986, the maximum number of chances and maximum period of years to pass respective professional examination as laid down under the clauses 7(1)(c), 2(c),3(c), 4(c) and 4(d) of SCHEDULE III (as amended vide notification no. 11-76/2016-Unani (U.G Regl.) Regulations, 2016) shall not be applicable to him.

11 Assessment.- Assessment of students shall be in the form of Formative and Summative Assessments as under-

(b) **Formative Assessment.-** Students shall be assessed periodically to assess their performance in the class, determine the understanding of programme material and their learning outcome in the following manner, namely:-

(i) Periodical Assessment shall be carried out at the end of teaching of a topic or module or a particular portion of syllabus and the evaluation methods as per the following table may be adopted as suits to the content, namely:-

Table – 8 (Evaluation methods for periodical assessment)

Sl. No.	Evaluation Method
1.	Practical or Clinical Performance
2.	Viva Voce or Multiple-Choice Question (MCQ) or Modified Essay Question (MEQ) or Structured Questions
3.	Open Book Test (Problem Based)
4.	Summary Writing (Research papers)
5.	Class Presentations
6.	Work Book Maintenance
7.	Problem Based Assignment
8.	Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OSPE), Mini Clinical Evaluation exercise (Mini-CEX) Direct Observation Procedures (DOP), Case Based Discussion (CBD)
9.	Extra-curricular activities (Social Work, Public Awareness, Surveillance Activities, Sports or other activities which may be decided by the department).
10.	Small Project;

(v) (a) Internal evaluation shall be conducted by the College or Institute at the end of six months (First Term Test) for thirty per cent. of the syllabus and at twelve months (Second Term Test) for forty per cent. new part of the syllabus.

- (b) The remaining thirty per cent. of syllabus shall be completed in the last six months (Third Term) before university examination;
- (iii) there shall be minimum three periodical assessments for each subject before First Term Test (ordinarily at 6th month of respective professional B.U.M.S) minimum of three periodical assessment before Second Term Test (ordinarily at 12th month of respective professional B.U.M.S) and minimum of three periodical assessments before final university examinations (Summative Assessment) of respective professional B.U.M.S.
- (iv) the scheme and calculation of assessment shall be as per the following tables, namely:-

Table -9**[Scheme of Assessment (Formative and Summative)]**

Sl.No.	Professional session	Duration of Professional Session		
		First Term (1-6 Months)	Second Term (7-12 Months)	Third Term (13-18 Months)
1	First Professional B.U.M.S	3 PA and First TT	3 PA and Second TT	3 PA and UE
2	Second Professional B.U.M.S	3 PA and First TT	3 PA and Second TT	3 PA and UE
3	Third (Final) Professional B.U.M.S	3 PA and First TT	3 PA and Second TT	3 PA and UE

PA: Periodical Assessment; TT: Term Test; UE: University Examination

Table - 10**[Calculation method of Internal Assessment Marks (20 marks)]**

Term	Periodical Assessment				Term Test	Term Assessment	
	A	B	C	D	E	F	G
	1 (20)	2 (20)	3 (20)	Average (A+B+C/3) (20)	Theory (MCQ + SAQ + LAQ) & Practical (Converted to 20)	Sub Total	Term Assessment
First						D+E	D+E/2
Second						D+E	D+E/2
Third					Nil	D	D
Final IA	Final Internal Assessment: Average of three Term Assessment marks as shown in 'G' column						

- (b) **Summative assessment.**- (i) Final university examinations conducted at the end of each Professionals B.U.M.S shall be Summative Assessment.
- (ii) There shall be double valuation system and shall be no provision for revaluation.
- (iii) There shall be two examiners (one internal and one external) for university practical /clinical/ vivavoce examinations
- (iv) While declaring the results of Summative assessment, Internal Assessment component and Elective marks shall be considered as per the distribution of marks pattern provided in *Tables 12, 14 and 16*.

12 The Profession wise Subjects, Number of Papers, Teaching hours and Marks distribution shall be as per the following tables, namely:-

Table – 11

(Teaching hours for First Professional B.U.M.S Subjects)

First Professional B.U.M.S.					
<i>Working days = 320, Teaching hours = 1920</i>					
<i>Induction programme = 15 Working days (90 hours)</i>					
<i>Remaining days and Teaching hours = 320 – 15 = 305 Days and 1830 Hours respectively</i>					
Sl. No.	Subject code	Name of Subject	Number of teaching hours		
			Lectures	Non-Lectures	Total
6.	UNIUG-UAMF	Urdu, Arabic and Mantiq wa Falsafa (Urdu, Arabic, Logic and Philosophy) Paper I – Urdu and Arabic Paper II –Mantiq wa Falsafa	90	180	270
7.	UNIUG-KUT	Kulliyat Umoore Tabiya (Basic Principles of Unani Medicine)	70	140	210
8.	UNIUG-TB	Tashreehul Badan (Human Anatomy) Paper I and Paper II	200	400	600
9.	UNIUG-MZ	Manafeul Aza (Human Physiology) Paper I and Paper II	200	400	600
10.	UNIUG-TT	Tareekhe Tib (History of medicine)	50	100	150
Total			610	1220	1830

Table - 12

(Number of Papers and Marks Distribution for First Professional B.U.M.S Subjects)

Sl. No.	Subject	Papers	Theory	Practical or Clinical Assessment					Grand Total
				Practical or clinical	Viva	Electives	IA	Total	

6.	Urdu, Arabic and Mantiq wa Falsafa (Urdu, Arabic, Logic and Philosophy) Paper I – Urdu and Arabic Paper II –Mantiq wa Falsafa	2	200	-	30	-	20	50	250
7.	Kulliyat Umoore Tabiya (Basic Principles of Unani Medicine)	1	100	100	20	10 (SetFA)*	20	150	250
8.	Tashreehul Badan (Anatomy) Paper I and Paper II	2	200	100	20	10 (SetFB)*	20	150	350
9.	Manafeul -Aza (Physiology) Paper I and Paper II	2	200	100	20	10 (SetFC)*	20	150	350
10.	Tareekhe Tib (History of medicine)	1	100	-	30	-	20	50	150
Grand Total									1350

[*Set:-FA, FB, FC – Sets of Electives for First Professional B.U.M.S]

Table – 13

(Teaching hours for Second Professional B.U.M.S Subjects)

Second Professional B.U.M.S.					
<i>Working days = 320, Teaching hours = 2240 including 320 clinical hours</i>					
Sl. No.	Subject code	Name of Subject	Number of teaching hours		
			Lectures	Non-Lectures	Total
8.	UNIUG-IA	Ilmul Advia (Pharmacology) Paper (I) Kulliyate Advia wa Advia jadeeda (Fundamentals of Unani Medicine and Modern Pharmacology) Paper (II)-Advia Mufradat (Single Drugs)	120	200	320
9.	UNIUG-ISM	Ilmul Saidla wa Murakkabat (Unani Pharmacy and Compound Drugs) Paper (I)- Ilmul Saidla (Unani Pharmacy) Paper (II)- Advia Murakkabat(Compound Drugs)	120	200	320

10.	UNIUG-TST	Tahaffuzi wa Samaji Tib (Preventive and Social Medicine)	120	180	300
11.	UNIUG-MA	Mahiyatul Amraz (Pathology) Paper (I)- Mahiyatul Amraz Umoomi wa Ilmul Jaraseem (General Pathology and Microbiology) Paper (II)- Mahiyatul Amraz Nizami (Systemic Pathology)	160	260	420
12.	UNIUG-TQS	Ilme Tibbe Qanoon wa Ilmul Samoom (Medical Jurisprudence and Toxicology)	100	180	280
13.	UNIUG-SUI	Sareeriyat wa Usoole Ilaj (Bed Side Clinic and Principles of Management)	100	180	280
14.	Clinical hours at Hospital or Laboratory or Pharmacy or dispensary etc., (1 hour per day)		-----	320	320
Total			720	1520	2240

(Note: Clinical hours to be added to non-lecture hours of concerned subject while calculating attendance)

Table -14

(Number of Papers and Marks distribution for Second Professional B.U.M.S Subjects)

Sl. No.	Subject	Papers	Theory	Practical or Clinical Assessment					Grand total
				Practical or clinical	Viva	Electives	IA	Total	
7.	Ilmul Advia (Pharmacology) Paper (I) Kulliyate Advia wa Advia jadeeda (Fundamentals of Unani Medicine and Modern Pharmacology) Paper (II)-Advia Mufradat (Single Drugs)	2	200	100	30	-	20	150	350
8.	Ilmul Saidla wa Murakkabat (Unani Pharmacy and Compound Drugs)	2	200	100	30	-	20	150	350

	Paper (I)- Ilmul Saidla (Unani Pharmacy) Paper (II)- Advia Murakkabat (Compound Drugs)								
9.	Tahaffuzi wa Samaji Tib (Preventive and Social Medicine)	1	100	100	20	10 (SetSA)*	20	150	250
10.	Mahiyatul Amraz (Pathology) Paper (I)- Mahiyatul Amraz Umoomi wa Ilmul Jaraseem (General Pathology and Microbiology) Paper (II)- Mahiyatul Amraz Nizami (Systemic Pathology)	2	200	100	30	-	20	150	350
11.	Ilme Tibbe Qanoon wa Ilmul Samoom (Medical Jurisprudence and Toxicology)	1	100	100	20	10 (SetSB)*	20	150	250
12.	Sareeriyat wa Usoole Ilaj (Bed Side Clinic and Principles of Management)	1	100	100	20	10 (SetSC)*	20	150	250
Grand Total									1800

[*Set:-SA, SB, SC – Sets of Electives for Second Professional B.U.M.S]

Table – 15

(Teaching hours for Third (Final) Professional B.U.M.S Subjects)

Third Professional B.U.M.S.					
<i>Working days = 320, Teaching hours = 2240 including 960 clinical hours</i>					
Sl.No.	Subject code	Name of Subject	Number of teaching hours		
			Lectures	Non-Lectures	Total
10.	UNIUG-MOA	Moalajat Paper –(I), Paper –(II) and Paper – (III)	160	320	480

11.	UNIUG-QAN	Ilmul Qabalat wa Amraze Niswan (Obstetrics and Gynaecology) Paper (I) and Paper (II)	100	170	270
12.	UNIUG-IJ	Ilmul Jarahat (Surgery) Paper (I) and Paper (II)	150	300	450
13.	UNIUG-AUH	Ain, Uzn, Anf, Halaq wa Asnan (Ophthalmology, ENT and Dentistry)	70	140	210
14.	UNIUG-AJT	Amraze Jild wa Tazeeniyat (Dermatology and Cosmetology)	70	140	210
15.	UNIUG-IBT	Ilaj bit Tadabeer (Regimenal Therapy)	70	140	210
16.	UNIUG-AAN	Amraze Atfal wa Naumaulood (Paediatrics and Neonatology)	70	140	210
17.	UNIUG-RMS	Research Methodology and Medical Statistics	50	90	140
18.	Emergency Medicine or Casualty			60	60
Total			740	1500	2240

Table – 16

(Number of Papers and Marks Distribution for Third (Final) Professional B.U.M.S Subjects)

S. No.	Subject	Papers	Theory	Practical or Clinical Assessment					Grand Total
				Practical or clinical	Viva	Electives	IA	Total	
9.	Moalajat Paper –(I), Paper –(II) and Paper –(III)	3	300	100	30	-	20	150	450
10.	Ilmul Qabalat wa Amraze Niswan (Obstetrics and Gynaecology) Paper (I) - Obstetrics and Paper (II) - Gynaecology	2	200	100	30	-	20	150	350
11.	Ilmul Jarahat (Surgery) Paper (I) and Paper (II)	2	200	100	30	-	20	150	350

12.	Ain, Uzn, Anf, Halaq wa Asnan (Ophthalmology, ENT and Dentistry)	1	100	100	20	10 (SetTA)*	20	150	250
13.	Amraze Jild wa Tazeeniyat (Dermatology and Cosmetology)	1	100	100	20	10 (Set-TB)*	20	150	250
14.	Ilaj bit Tadabeer (Regimenal Therapy)	1	100	100	20	10 (SetTC)*	20	150	250
15.	Amraze Atfal wa Naumaulood (Paediatrics and Neonatology)	1	100	100	30	-	20	150	250
16.	Research Methodology and Medical Statistics	1	100	-	30	-	20	50	150
Grand Total									2300

[*Set:-TA, TB, TC – Sets of Electives for Third (Final) Professional

B.U.M.S] 13 Migration of students during the study.-

- (3) The students may be allowed to take the migration to continue their study to another college after passing the First Professional examination, but failed student's transfer and mid-term migration shall not be allowed.
- (4) For migration, the student shall have to obtain the mutual consent of both colleges and universities and it shall be against the vacant seat.

14 Compulsory Rotatory Internship.- (a) (i) The duration of Compulsory Rotatory Internship including Internship Orientation Programme shall be one year and ordinarily commence on **first working day of April for regular batch students and first working day of October for supplementary batch students.**

- (ii) The student shall be eligible to join the Compulsory Internship programme after passing all the subjects from First to Third (Final) Professional Examination including nine electives and after getting Provisional Degree Certificate from respective universities and Provisional Registration Certificate from respective State Board or Council for Compulsory Rotatory Internship.
- (b) Stipend: During internship, to the interns belonging to Central Government, State Government and Union territory institution, the stipend shall be paid at par with other medical system under respective government and there shall not be any discrepancy between medical system.
- (c) Migration during Internship.- (i) Migration of internship shall be with the consent of both the colleges and university, in the case where the migration is in between the colleges of two different universities;

- (ii) If migration is only between colleges of the same university, the consent of both the colleges shall be required;
- (iii) migration shall be accepted by the university on the production of the character certificate issued by the institute or college and the application forwarded by the college and university with a 'No Objection Certificate' as the case may be.
- (d) Orientation programme.- (i) The interns shall mandatorily attend an orientation programme regarding internship and it shall be the responsibility of the teaching institution to conduct the orientation before the commencement of the Internship.
- (ii) The orientation shall be conducted with an intention to make the intern to acquire the requisite knowledge about the rules and regulations of the Medical Practice and Profession, Medical Ethics, Medico-Legal Aspects, Medical Records, Medical Insurance, Medical Certification, Communication Skills, Conduct and Etiquette, National and State Health Care Programme.
- (iii) The orientation workshop shall be organised at the beginning of internship and an e-log book shall be maintained by each intern, in which the intern shall enter date-wise details of activities undertaken by him during orientation.
- (iv) The period of orientation shall be of seven days.
- (v) The manual for conducting the orientation as prescribed from time to time by the National Commission for Indian System of Medicine shall be followed.
- (e) Activities during the Internship.- (i) The daily working hours of an intern shall be not less than eight hours; the intern shall maintain an e-log book containing all the activities undertaken by him during internship.
- (ii) Normally one-year internship shall be as under-
- (A) Option I.- Divided into clinical training of six months in the Unani hospital attached to the college and six months in Primary Health Centre (PHC) or Community Health Centre (CHC) or Rural Hospitals or District Hospital or Civil Hospital or any Government Hospital of Modern Medicine or Unani Medicine or Unani dispensary or Clinical unit of Central Council for Research in Unani Medicine or National Institute of Unani Medicine or National Accreditation Board for Hospitals (NABH) accredited private hospital of Unani. Only Out-Patient Department (OPD) based clinics having NABH accreditation shall not be eligible for internship.
- (B) Option II.- All twelve months in Unani Hospital attached to the college.
- (iii) The clinical training of six or twelve months, as case may be, in the Unani Hospital attached to the college or in Non-Teaching Hospitals laid down by the National Commission for Indian System of Medicine shall be conducted as per the following table, namely:-

Table – 17

(Distribution of Internship duration at Unani teaching hospital, attached to the college)

Sl. No.	Departments	Option I	Option II
1.	Moalajat including Amraze Jild wa Tazeeniyat and Isabat (Casualty) (OPD and related specialities, respective IPD)	Forty-five days	Three months
2.	Ilaj bit Tadabeer (OPD and related specialities, respective IPD)	One month	Two months

3.	Jarahat (OPD and related specialities, respective IPD, OT)	One month	Two months
4.	Ain, Uzn, Anf, Halaq wa Asnan (OPD and related specialities, respective IPD, OT)	Fifteen days	One month
5.	Qabalat wa Niswan (OPD and related specialities, respective IPD, Labour room)	One month	Two months
6.	Ilmul Atfal (OPD and related specialities, respective IPD)	Fifteen days	One month
7.	Tahaffuzi wa Samaji Tib (OPD and related specialities, respective IPD)	Fifteen days	One month
8.	PHC, CHC, District Hospital etc. as mentioned in Option I under the clause (ii), sub-regulation (e) of regulation 14	Six months	-----

(iv) (a) The interns shall also be posted in any of the following centers where, the National Health Programme are being implemented and these postings shall be to get oriented and acquaint the knowledge of implementation of National Health Programme in regard to,-

- (A) Primary Health Centre;
- (B) Community Health Centre or Civil Hospital or District Hospital;
- (C) any recognised or approved Hospital of modern medicine;
- (D) any recognised or approved Unani Hospital or Dispensary;
- (E) in a clinical unit of Central Council for Research in Unani Medicine or National Institute of Unani Medicine;

(b) all the above institutes mentioned in clauses (A) to (E) shall have to be recognised by the concerned university or concerned Government designated authority for taking such a training.

(v) The intern shall undertake the following activities with special attention to Matab-wa-NuskhaNavesi (wherever applicable) in respective departments in the hospital attached to the college, namely:-

- (A) **Moalajat (Medicine).**- The intern shall be practically trained to acquaint with and to make him competent to deal with following, namely:-
 - (i) all routine works such as case taking, physical examination, investigations, diagnosis and management of diseases confined to general medicine;
 - (ii) line of treatment of diseases;
 - (iii) examination of Nabz, Baul-o-Baraz by Unani methods, routine clinical pathological work as haemoglobin estimation, complete haemogram, urine Analysis, microscopic examination of blood Smears, sputum examination, stool examination, interpretation of laboratory data and clinical findings etc; all hematological, biochemical, pathological, radiological investigations, imaging studies and all advanced modern investigations useful for diagnosis and assessment of prognosis;
 - (iv) Unani diagnostic methods: examination of Nabz, Baul-o-Baraz;
 - (v) training in routine ward procedures and supervision of patients in respect of their diet, habits and verification of medicine schedule;

- (vi) Amraze Jild-wa Tazeeniyat: diagnosis and management of various skin disease, use of modern techniques and equipment in skin and cosmetology etc.; and (vii) maintaining clinical records.
- (B) **Ilaj bit Tadabeer (Regimenal Therapy)**.- The intern shall be practically trained to acquaint with and to make him competent to deal with following, namely:-
- (i) all routine works such as case taking, investigations, diagnosis and management of diseases confined to Ilaj bit Tadabeer;
 - (ii) procedures and techniques of various regimenal therapies like hijama (cupping), fasd (venesection), taleeq (leech application), dalak (massage), riyazat (exercise), etc;
 - (iii) management of neuromusculoskeletal disorder with various regimenal therapies;
 - (iv) application of the various regimenal therapies for preventive and therapeutic purposes; and (v) maintaining clinical records.
- (C) **Jarahat (Surgery)** - The intern shall be practically trained to acquaint with and to make him competent to deal with following, namely : -
- (i) all routine works such as case taking, investigations, diagnosis and management, common surgical disorders to Unani principles; under Jarahat.
 - (ii) management of certain surgical emergencies such as fractures and dislocations, acute abdomen;
 - (iii) practical training of aseptic and antiseptics techniques and sterilisation including surgical instruments.
 - (iv) intern shall be involved in pre-operative and post-operative managements;
 - (v) practical use of local anesthetic and use of anesthetic drugs;
 - (vi) radiological procedures, clinical interpretation of X-ray, intravenous pyelogram, barium meal X-ray, sonography and electrocardiogram and all imaging studies including CT scan, MRI and PET-CT.
 - (vii) surgical procedures and routine ward techniques such as: -
 - (a) suturing of fresh injuries;
 - (b) dressing of wounds, burns, ulcers and similar ailments;
 - (c) incision and drainage of abscesses;
 - (d) excision of cysts;
 - (e) venesection; and
 - (f) examination with proctoscope.
 - (viii) training in IV fluid infusion blood bank and transfusion procedures.
 - (ix) maintaining clinical records.
- (D) **Ain, Uzn, Anf, Halaq wa Asnan (Ophthalmology, ENT and Dentistry)**.- The intern shall be practically trained to acquaint with and to make him competent to deal with following, namely:-
- (i) all routine works such as case taking, investigations, diagnosis and management common surgical disorders according to Unani principles;

- (ii) intern shall be involved in pre-operative and post-operative managements;
 - (iii) surgical procedures of ear, nose, throat, dental problems, ophthalmic problems;
 - (iv) examinations of eye, ear, throat disorders, reflective error with the supportive instruments in out-patient department;
 - (v) minor surgical procedures in Uzn, Anf, Halaq like syringing and antrum wash, packing of nose in epistaxis, removal of foreign bodies from Uzn, Anf and Halaq at out-patient department level; and (vi) maintaining clinical records.
- (E) **Qabalat wa Niswan (Obstetrics and Gynaecology).**- The intern shall be practically trained to acquaint with and to make him competent to deal with following, namely:-
- (i) all routine works such as case taking, investigation, diagnosis and management of gynecological and obstetrical disorders;
 - (ii) ante-natal and post-natal care by Unani principles and medicine;
 - (iii) ante-natal and post-natal problems and their remedies;
 - (iv) practical training on handling instruments like speculum, dilator etc. and sterilisation;
 - (v) management of normal and abnormal labours; (vi) minor and major obstetric surgical procedures;
 - (vii) screening of common carcinomatous conditions in women;
 - (viii) training on ultrasonogram, necessary investigation and interpretation;
 - (ix) examination of breast, vaginal smear etc.; and
 - (x) maintaining clinical records.
- (F) **Ilmul Atfal (Paediatrics).**- The intern shall be practically trained to acquaint with and to make him competent to deal with following, namely:-
- (i) all routine works such as case taking, investigations, diagnosis and management according to Unani principles;
 - (ii) care of new born child along with immunization programme;
 - (iii) important pediatric problem and their management in Unani system of medicine;
 - (iv) training on ultrasonogram, necessary investigations and interpretations; and (v) maintaining clinical records.
- (G) **Tahaffuzi wa Samaji Tib (Preventive and Social Medicine).**- The intern shall be practically trained to acquaint with and to make him competent to deal with the programme of prevention and control of locally prevalent endemic diseases including nutritional disorders, immunization, management of infectious diseases, family welfare planning programme, Ilajbil-ghiza (dietotherapy) and geriatric care.
- (H) **Isabat (Emergency Medicine or casualty)** (shall be functioning under the Moalajat Department).- The intern shall be practically trained to acquaint with and to make him competent to deal with all emergency conditions and participate actively in the casualty section of the hospital in identification of casualty and trauma cases and their first aid treatment and also procedure for referring such cases to the identified hospitals, and the emergency OutPatient Department (OPD).

- (vi) The intern shall complete online course on public health as laid down by National Commission for Indian System of Medicine (NCISM), in addition to their regular duties.
- (vii) The Internship training in Primary Health Centre or Community Health Centre or Rural Hospital or District Hospital or Civil Hospital or any Government Hospital of Modern Medicine or Unani Hospital or Dispensary.-

During the six months internship training in Primary Health Centre or Community Health Centre or Rural Hospital or Civil Hospital or District Hospital or any recognised or approved Hospital of Modern medicine or Unani Hospital or Dispensary in a clinical unit of the Central Council for Research in Unani or National Institute of Unani Medicine, the intern shall.-

- (A) get acquainted with routine of the primary health centre and maintenance of their records;
- (B) get acquainted with the diseases more prevalent in rural and remote areas and their management;
- (C) involve in teaching of health care methods to rural population and also various immunization programme;
- (D) get acquainted with the routine working of the medical or non-medical staff of Primary Health Centre or other hospitals and be always in contact with the staff in this period;
- (E) get familiarised with the work of maintaining the relevant register like daily patient register, family planning register, surgical register etc., and take active participation in different Government health schemes and programme;
- (F) participate actively in different National Health Programme implemented by the State Government; and
- (G) get trained in diagnosis, Unani treatment, external treatment procedures and Unani special treatment methods, Unani specialty Out-Patient departments (OPD), and research.
- (viii) **Electronic Logbook.**- (a) It shall be compulsory for an intern to maintain the record of procedures done or assisted or observed by him on a day-to-day basis in a specified e-logbook and the intern shall maintain a record of work, which is to be verified and certified by the Medical Officer or Head of the Department or Unit under whom he works.
- (b) Failure to produce a e-logbook, complete in all respects duly certified by the concerned authority to the Dean or Principal or Director at the end of Internship Training Programme, may result in cancellation of his performance in any or all disciplines of Internship Training Programme.
- (c) The Institution shall retain soft copy of completed and certified e-Logbook and is to be made available for verification.
- (ix) **Evaluation of Internship.**- (A) The evaluation system shall assess the skills of a candidate while performing the minimum number of procedures as enlisted with an objective that successful learning of these procedures will enable the candidate to conduct the same in his actual practice.
- (B) The evaluation shall be carried out by respective Head of Department at the end of each posting and the report shall be submitted to Head of the institute in Form-1 under ***Annexure-III.***

- (C) On completion of one year of compulsory rotatory internship including online course on Public Health, the Head of the Institute evaluate all the assessment reports in the prescribed Form-1 under **Annexure-III**, provided by various Head of the Department at the end of respective posting and if found satisfactory, the intern shall be issued Internship Completion Certificate in Form-2 under **Annexure-IV** within seven working days.
- (D) If a candidate's performance is declared as unsatisfactory upon obtaining below fifteen marks as per Form-1 under **Annexure-III** or less than fifty per cent. of marks, in an assessment in any of the departments he shall be required to repeat the posting in the respective department for a period of thirty per cent. of the total number of days, laid down for that department in Internship Training and Posting.
- (E) A candidate shall have the right to register his grievance in any aspects of conduct of evaluation or award of marks, separately to the concerned Head of the Department and Head of the Institution, within three days from the date of completion of his evaluation, and on receipt of such grievance, the Head of the Institution in consultation with the Head of the concerned department shall redress and dispose of the grievance in an amicable manner within seven working days.
- (x) Leave for interns.- (A) During compulsory rotatory internship of one year, twelve leaves are permitted and any kind of absence beyond twelve days shall be extended accordingly.
(B) Intern cannot take more than six days including prefix or suffix of any kind of holidays leave at a time.
- (xi) Completion of Internship.- If any delay in the commencement of internship or abnormal break during internship due to unavoidable conditions, in such cases internship period shall be completed within maximum period of three years from the date of passing the qualifying examination of Third (Final) Professional B.U.M.S including First and Second Professional Examinations and nine electives, specified as eligibility for internship;
Provided that in such cases, the student shall get prior permission from the head of the institution in written with all supporting documents and it shall be the responsibility of the head of the institution to scrutiny the documents, and assess the genuine nature of the request before issuing permission letter. While joining internship, the student shall submit the request letter along with supporting documents, and all necessary documents as mentioned in the subregulation (a) and undergo the internship orientation programme as mentioned in the subregulation (d).

15 Tuition fee.- The tuition fee as laid down and fixed by respective governing or fee fixation committees as applicable shall be charged for four and half years only and no tuition fee shall be charged for extended duration of study in case of failing in examinations or by any other reasons and there shall not be any fee for internship doing in the same institute.

16 Qualifications and experience for teaching staff.- (a) Essential qualification.- (i) a Bachelor Degree in Unani from a University or its equivalent as recognised by the Central Council of Indian Medicine or

National Commission for Indian System of Medicine under the Act; and

- (ii) a Post-graduate qualification in Unani in the concerned subject or specialty from a university recognised by the Central Council of Indian Medicine or National Commission for Indian System of Medicine under the Act;

- (iii) a valid registration with the concerned State Board or Council where he is employed or a valid Central or National Registration Certificate issued by the Central Council of Indian Medicine or National Commission for Indian System of Medicine.

“This is not applicable for teachers of non-medical qualifications,”

- (iv) for Urdu/Arabic teacher (regular), the candidate should be a post-graduate in Arabic or equivalent qualification from a recognised university and a candidate with Bachelor of Unani Medicine and Surgery qualification at under-graduate level and post-graduate degree in Arabic shall be given priority.

- (v) Qualification for the subjects of Anatomy, Physiology, Biochemistry, Microbiology, Public

Health, Pharmacology.- the teachers having Bachelor degree in Unani and Post-graduate degree (regular) from a recognised university in the subject concerned and having University Grants Commission/Council of Scientific and Industrial Research/Indian Council of Medical Research

National Eligibility Test (whichever applicable) may also be appointed without qualifying National Teachers Eligibility Test; and

- (vi) The teachers having Bachelor Degree in Unani and Post-graduate in the relevant modern science disciplines as referred to clause (h) of section 2 of Act and as mentioned in regulation 9 of these regulations and having University Grants Commission/Council of Scientific and Industrial Research/Indian Council of Medical Research National Eligibility Test qualification shall be eligible to appoint without qualifying the National Teachers Eligibility Test.

- (vii) Teacher with the following qualifications obtained from a recognised university or institution may be appointed in respective departments as per following table, namely:-

Table 18

(Qualifications and Departments for Appointment)

Sl.No.	Qualification	Department
1	B.U.M.S and MSc Anatomy	Tashreehul Badan
2	B.U.M.S and MSc Physiology	Manafeul Aza
3	B.U.M.S and MSc Biochemistry	Manafeul Aza
4	B.U.M.S and MSc Microbiology	Mahiyatul Amraz
5	B.U.M.S and MSc Pharmacology or Medical Pharmacology	Ilmul Advia
6	B.U.M.S and MPH	Tahaffuzi wa Samaji Tib

Teachers with above qualifications shall not be more than one in specified

departments. **(b) Experience.- (i) For the Post of Professor.-**

- (A) ten years of teaching experience as regular teacher in the concerned subject or five years teaching experience as Associate Professor or Reader on regular basis teacher in the concerned subject; or
- (B) ten years research experience as fulltime researcher (after possessing Post-graduate qualification in the concerned subject) in Research Councils of Central Government or State Government or Union territory or University or National Institution or National Accreditation

Board for Testing and Calibration Laboratories (NABL) accredited Research Laboratory or ten years of experience in regular service (after possessing Post-graduate qualification in the concerned subject) in Central Government Health Services or State Government Health Services, Ministry of Ayush or ten years of experience (after possessing Post-graduate qualification in the concerned subject) as Assistant Registrar or Registrar in Central Council of Indian Medicine having qualified National Teachers Eligibility Test from the date it is operational and with any one of the following three criteria, namely:- (i) minimum of five research articles published in indexed journals (UGC-CARE, PubMed, Web of Science, Science Citation Index, Scopus); or

(ii) minimum of three research articles published in indexed journals (UGC-CARE, PubMed, Web of Science, Science Citation Index, Scopus) and 01 Published book or Manual relevant to Unani; or

(vi) investigator for any major research project; (duration of the project three years and above as per the sanctioned letter); and

(vii) having post-graduate qualification in concerned subject except in the subjects or specialty of Imul Jarahat, Amraze Ain, Uzn, Anf, Halaq wa Asnan and Ilmul Qabalat wa Amraze Niswan;

Provided that the in-service candidate shall have completed his post-graduation in concerned subject before the completion of forty-five years of his age.

(ii) For the Post of Associate Professor.-

(A) five years of teaching experience as regular teacher in the concerned subject; or

(B) five years of research experience as fulltime researcher (after possessing Post-graduate qualification in the concerned subject) in Research Councils of Central Government or State Government or Union territory or University or National Institutions or National Accreditation Board for Testing and Calibration Laboratories (NABL) accredited Research Laboratories or five years of experience in regular service (after possessing Post-graduate qualification in the concerned subject) in Central Government Health Services or State Government Health services, Ministry of Ayush or five years of experience (after possessing Post-graduate qualification in the concerned subject) as Assistant Registrar or Registrar in Central Council of Indian Medicine having qualified National Teachers Eligibility Test from the date it is operational and with any one of the following three criteria, namely:- (i) minimum of three research articles published in indexed journals (UGC-CARE, PubMed, Web of Science, Science Citation Index, Scopus); or

(ii) minimum of one research article published in indexed journals (UGC-CARE, PubMed, Web of Science, Science Citation Index, Scopus) and 01 Published book or Manual relevant to Unani; or

(iii) investigator for any major research project (duration of the project three years and above as per the sanctioned letter) or minor research project (duration of the project less than three years as per the sanctioned letter); and

(iv) having post-graduate qualification in concerned subject except in the subjects or specialty of Imul Jarahat, Amraze Ain, Uzn, Anf, Halaq wa Asnan and Ilmul Qabalat wa Amraze Niswan;

Provided that the in-service candidate shall have completed his post-graduation in

concerned subject before the completion of forty-five years of his age.

- (iii) **For the post of Assistant Professor.-** No teaching experience shall be required, but the age shall not exceed forty-five years at the time of first appointment
- (iv) Qualification for teacher of Research Methodology and Medical Statistics shall be a postgraduate degree in Medical Statistics or Biostatistics or Epidemiology or other relevant discipline of Research Methodology or Medical Statistics:

Provided that, the post-graduates of Unani, who have studied Research Methodology or Medical Statistics as one of the subjects in their post-graduation or the post-graduates of Unani, who have successfully completed the online course in Research Methodology or Medical Statistics conducted by the National Institute of Epidemiology of Indian Council of Medical Research shall also be eligible to teach the subject of Research Methodology and Medical Statistics and shall be given preference at the time of appointment and the teacher of Research Methodology and Medical Statistics can be appointed on part time basis and shall work under the Department of Tahaffuzi wa Samaji Tib and such part time teachers shall not be provided teacher's code.

- (v) Qualification for Yoga instructor (full time) shall be minimum a graduate degree in Yoga and shall work under the Department of Tahaffuzi wa Samaji Tib. Post-graduate in Tahaffuzi wa Samaji Tib or the candidate with under-graduation in Unani and post-graduation in Yoga shall also be eligible for the same. There shall not be teacher's code for the post of instructor.
- (vi) Qualification of teachers for Pre-Tib programme.- For subjects of Basic Sciences.- Master of Science (M.Sc) in the respective subject with minimum percentage of 55.
- (vii) Teachers appointed with such qualification as mentioned in clauses (iv), (v), (vi), (vii) of subregulation (a) under regulation 16 shall be eligible for the post of Associate Professor after seven years of teaching experience and twelve years of teaching experience for the post of Professor and such teachers shall not be eligible for the post of Head of the Department as well as Head of the Institution.
- (viii) The research experience of Doctor of Philosophy (Ph.D).- The actual research duration i.e., the date of joining to the date of submission of thesis and not more than three years shall be considered as teaching experience and Ph.D seat allotment letter, Proof of joining to full-time Ph.D programme and proof of submission of thesis to the university shall be considered as evidence in this regard.
- (ix) Temporary appointment or temporary promotion of teacher shall not be considered for eligibility.
- (x) In case of deputation of Medical Officer as teacher, it shall be with qualifications, designations and experience as specified in these regulations and the deputation shall not be less than three years and any emergency withdrawal shall be after proper replacement or alternate arrangement.
- (xi) Provision of allied subject.- In absence of the candidate of Post-graduate qualification in the subject concerned as mentioned in column (2) of the Table below, the candidate of Post-graduate qualification in the allied subjects as mentioned in column (3) of the said **Table-19**, shall be considered eligible for the post of Assistant Professor.

Table-19

(Provision of allied subject)

Sl.No.	Subject	Allied subjects
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11.	Tashreehul Badan (Human Anatomy)	Ilmul Jarahat or Kulliyate Tib (Surgery or Basic Principle of Unani Medicine)
12.	Manafeul Aza (Human Physiology)	Kulliyate Tib (Basic Principle of Unani Medicine)
13.	Ilmul Saidla (Unani Pharmacy)	Ilmul Advia (Pharmacology)
14.	Ilme Tibbe Qanoon wa Ilmul Samoom (Medical Jurisprudence and Toxicology)	Tahafuzzi wa Samaji Tib or Moalajat or Ilmul advia (Preventive and Social Medicine or Medicine or Pharmacology)
15.	Sareeriyat wa Usoole Ilaj (Bed Side Clinic and principles of Management)	Moalajat (Medicine)
16.	Mahiyatul Amraz (Pathology)	Moalajat or Kulliyate Tib (Medicine, Basic Principle of Unani Medicine)
17.	Ilaj bit Tadabeer (Regimenal Therapy)	Moalajat or Tahaffuzi wa Samaji Tib (Medicine or Preventive and Social Medicine)
18.	Amraze Jild wa Tazeeniyat (Dermatology and Cosmetology)	Moalajat (Medicine)
19.	Amraze Ain, Uzn, Anf, Halaq wa Asnan (Ophthalmology, ENT and Dentistry)	Ilmul Jarahat or Moalajat (Surgery or Medicine)
20.	Ilmul Atfal (Paediatrics)	Moalajat or Ilmul Qabalat wa Amraze Niswan (Medicine or Obstetrics and Gynecology)

* The provision of allied subjects may be allowed for five years from the date of commencement of these regulations.

(c) **Qualification and experience for Post of Head of the Institution.**- The qualification and experience for the post of Head of the Institution (Principal or Dean or Director) shall be the same qualification and experience as specified for the post of Professor with minimum three years of administrative experience (Vice Principal or Head of the Department or Deputy Medical Superintendent or Medical Superintendent etc.)

(d) **Salary.**- (a) For the teachers of Government or Government aided institution or Government deemed University.- The Salary and all allowances including Non Practicing Allowance as applicable shall be paid to the teachers at par with the norms laid down by the Central Government or University Grants Commission or the State Government or Union territory as the case may be and there shall not be any discrepancy of salary structure between medical systems.

(b) For the teacher of self-financing college including Central Private deemed University or State Private deemed University.- (i) the minimum basic pay shall be as per the following table, namely:- **Table-20**

(Minimum Monthly Salary)

Sl.No.	Post	Pay scale
1.	Assistant Professor	Pay Level-10, Pay Matrix Rs. 56,100-1,77,500 (as per 7 th CPC)
2.	Associate Professor	Pay Level-12, Pay Matrix Rs. 78,800-2,09,200 (as per 7 th CPC)
3.	Professor	Pay Level-13, Pay Matrix Rs. 1,23,100-2,15,900 (as per 7 th CPC)
4.	Head of the Institution	Pay Level-13A, Pay Matrix Rs. 1,31,100-2,16,600 (as per 7 th CPC)

- (ii) (a) This shall be the minimum prescribed salary and shall not be restrictive for higher salary structure.
 - (b) Monthly salary shall be paid along with applicable allowances as per respective employer's policy and annual increment with respect to the year of experience to the concerned cadre or post.
 - (c) The institute which is already paying higher salary structure shall continue with the same.
 - (d) Corresponding pay structure as applicable shall be adopted as and when Central Pay Commission (CPC) revises pay scales.
- (c) The Salary shall be credited to the salary account through bank transfer and necessary facilities to the teacher such as, Provident Fund or Employees' State Insurance, etc. shall be provided by the college and Income Tax deduction certificate such as form 16 shall be issued by the college to the teacher as per the norms.
 - (d) The college shall issue appointment/promotion order in which the details such as salary, notice period for resignation, minimum attendance to be maintained by the teacher shall be clearly mentioned.
 - (e) **Age of superannuation of teacher.-** The age of superannuation of teachers shall be as per the order of the Central Government or State Government or Union territory, and the retired teachers, fulfilling the eligibility norms of teachers may be re-employed up to the age of sixty-five years as full-time teacher.
 - (f) **Unique teacher's code.-** (i) A unique teacher's code for all eligible teachers, shall be allotted by the National Commission for Indian System of Medicine after their appointment in the college through an Online Teachers Management System on application within seven working days from the date of joining and the Promotion or Relieving or Transfer of Department of all such teachers shall be facilitated and monitored through the Online Teachers Management System (OTMS).
 - (ii) Institute and Teacher shall update profile in the OTMS from time to time with respect to promotion, department transfer, relieving etc.
 - (g) The Commission shall have the power to withdraw the teacher's code on ethical and disciplinary grounds. (h) The commission shall have the power to withdraw or withheld the unique teacher's code if the teacher discontinues the teaching profession or not joined any institution for any reason and he may rejoin the teaching profession with the same teacher's code after completing the procedure as specified by National Commission for Indian System of Medicine from time to time.
 - (i) **Attendance of teacher.-** The teacher shall abide by the guidelines and mandates as laid down by the National Commission for Indian System of Medicine from time to time and shall have at least seventyfive per cent. of attendance during the working days of every calendar year.
 - (j) **Development and Training of Faculty Member.-** Once in every three years teachers shall undergo Medical Education Technology (MET) or Quality Improvement Programme (QIP) conducted by NCISM or designated authority.

17 Appointment of examiner in Unani.- No person other than regular or retired teacher with minimum five years of teaching experience in the concerned subject shall be considered eligible for examinership and the maximum age-limit of examiner shall be sixty-five years.

Appendix "A" [See regulation 4 (4)]

SCHEDULE relating to "SPECIFIED DISABILITY" referred to in clause (zc) of section 2 of the Rights of Persons with Disabilities Act, 2016(49 of 2016), provides as under:-

1. Physical disability.—

(A) Locomotor disability (a person's inability to execute distinctive activities associated with movement of self and objects resulting from affliction of musculoskeletal or nervous system or both), including— (a) "leprosy cured person" means a person who has been cured of leprosy but is suffering from—

(i) loss of sensation in hands or feet as well as loss of sensation and paresis in the eye and eye -lid but with no manifest deformity;

(ii) manifest deformity and paresis but having sufficient mobility in their hands and feet to enable them to engage in normal economic activity;

(iii) extreme physical deformity as well as advanced age which prevents him/her from undertaking any gainful occupation, and the expression "leprosy cured" shall construed accordingly;

(b) "cerebral palsy" means a Group of non-progressive neurological condition affecting body movements and muscle coordination, caused by damage to one or more specific areas of the brain, usually occurring before, during or shortly after birth;

(c) "dwarfism" means a medical or genetic condition resulting in an adult height of 4feet 10 inches (147 centimeters) or less;

(d) "muscular dystrophy" means a group of hereditary genetic muscle disease that weakens the muscles that move the human body and persons with multiple dystrophy have incorrect and missing information in their genes, which prevents them from making the proteins they need for healthy muscles. It is characterized by progressive skeletal muscle weakness, defects in muscle proteins, and the death of muscle cells and tissue;

(e) "acid attack victims" means a person disfigured due to violent assaults by throwing acid or similar corrosive substance.

(B) Visual impairment—

(a) "blindness" means a condition where a person has any of the following conditions, after best correction— (i) total absence of sight; or

(ii) visual acuity less than 3/60 or less than 10/200 (Snellen) in the better eye with best possible correction; or (iii) limitation of the field of vision subtending an angle of less than 10 degree.

(b) "low-vision" means a condition where a person has any of the following conditions, namely:—

(i) visual acuity not exceeding 6/18 or less than 20/60 upto 3/60 or upto 10/200(Snellen) in the better eye with best possible corrections; or

(ii) limitation of the field of vision subtending an angle of less than 40 degree up to 10 degree.

(C) Hearing impairment -

(a) "deaf" means persons having 70 DB hearing loss in speech frequencies in both ears;

(b) "hard of hearing" means person having 60 DB to 70 DB hearing loss in speech frequencies in both ears;

(D) "speech and language disability" means a permanent disability arising out of conditions such as laryngectomy or aphasia affecting one or more components of speech and language due to organic or neurological causes.

2. Intellectual disability, a condition characterized by significant limitations both in intellectual functioning (reasoning, learning, problem solving) and in adaptive behavior which covers a range of every day, social and practical skills, including—

(a) "specific learning disabilities" means a heterogeneous group of conditions wherein there is a deficit in processing language, spoken or written, that may manifest itself as a difficulty to comprehend, speak, read, write, spell, or to do mathematical calculations and includes such conditions as perceptual disabilities, dyslexia, dysgraphia, dyscalculia, dyspraxia and developmental aphasia;

(b) "autism spectrum disorder" means a neuro-developmental condition typically appearing in the first three years of life that significantly affects a person's ability to communicate, understand relationships and relate to others, and is frequently associated with unusual or stereotypical rituals or behaviours.

3. Mental behaviour,— "mental illness" means a substantial disorder of thinking, mood, perception, orientation or memory that grossly impairs judgment, behaviour, capacity to recognize reality or ability to meet the ordinary demands of life, but does not include retardation which is a condition of arrested or incomplete development of mind of a person, specially characterized by sub normality of intelligence.

4. Disability caused due to—

(a) chronic neurological conditions, such as—

(i) "multiple sclerosis" means an inflammatory, nervous system disease in which the myelin sheaths around the axons of nerve cells of the brain and spinal cord are damaged, leading to demyelination and affecting the ability of nerve cells in the brain and spinal cord to communicate with each other;

(ii) "parkinson's disease" means a progressive disease of the nervous system marked by tremor, muscular rigidity, and slow, imprecise movement, chiefly affecting middle-aged and elderly people associated with degeneration of the basal ganglia of the brain and a deficiency of the neurotransmitter dopamine.

(b) Blood disorder—

(i) "haemophilia" means an inheritable disease, usually affecting only male but transmitted by women to their male children, characterised by loss or impairment of the normal clotting ability of blood so that a minor would may result in fatal bleeding;

(ii) "thalassemia" means a group of inherited disorders characterized by reduced or absent amounts of haemoglobin.

(iii) "sickle cell disease" means a hemolytic disorder characterized by chronic anemia, painful events, and various complications due to associated tissue and organ damage; "hemolytic" refers to the destruction of the cell membrane of red blood cells resulting in the release of hemoglobin.

5. Multiple Disabilities (more than one of the above specified disabilities) including deaf blindness which means a condition in which a person may have a combination of hearing and visual impairments causing severe communication, developmental, and educational problems.

6. Any other category as may be notified by the Central Government from time to time.

Appendix "B" [See regulation 4 (4)]

Guidelines regarding admission of students, with "Specific Disabilities" under the Rights of Persons with Disabilities Act, 2016 (49 of 2016), in B.U.M.S.

1. The "Certificate of Disability" shall be issued in accordance with the Rights of Persons with Disabilities Rules, 2017, published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (i), vide number G.S.R. 591 (E), dated the 15th June, 2017.

2. The extent of “specified disability” in a person shall be assessed in accordance with the “guidelines for the purpose of assessing the extent of specified disability in a person included under the Rights of Persons with Disabilities Act, 2016 (49 of 2016)”, published in the Gazette of India, Extraordinary, Part II, Section 3, Sub - section (ii), vide number S.O. 76 (E), dated the 4th January, 2018.
3. The minimum degree of disability should be 40% (Benchmark Disability) in order to be eligible for availing reservation for persons with specified disability.
4. The term ‘Persons with Disabilities’ (PwD) is to be used instead of the term ‘Physically Handicapped’ (PH)

Table

Sl. No.	Disability category	Type of Disabilities	Specified Disability	Disability Range		
(1)	(2)	(3)	(4)	(5)		
				Eligible for B.U.M.S.. Programme, Not Eligible	Eligible for B.U.M.S.. Programme, Eligible for PwD Quota	Not Eligible for B.U.M.S. Programme

				for PwD Quota		
1.	Physical Disability	(A) Locomotor Disability, including Specified Disabilities (a to f).	(a) Leprosy cured person* (b) Cerebral Palsy** (c) Dwarfism (d) Muscular Dystrophy (e) Acid attack victims (f) Others*** such as Amputation, Poliomyelitis, etc.	Less than 40% disability	40-80% disability Persons with more than 80% disability may also be allowed on case to case basis and their function an incompetency will be determined with the aid of assistive devices, if it is being used, to see if it is brought below 80% and whether they possess sufficient motor ability as required to pursue and complete the program satisfactorily.	More than 80%
<p>* Attention should be paid to loss of sensations in fingers and hands, amputation, as well as involvement of eyes and corresponding recommendations be looked at.</p> <p>** Attention should be paid to impairment of vision, hearing, cognitive function etc. and corresponding recommendations be looked at.</p>						

		<p>*** Both hands intact, with intact sensations, sufficient strength and range of motion are essential to be considered eligible for B.U.M.S. program</p>			
	(B) Visual Impairment (*)	(a) Blindness	Less than 40% disability (i.e. Category '0 (10%)', (20%)' & 'II (30%)'	I	Equal to or More than 40% Disability (i.e. Category III and above)
		(b) Low vision		-	
	(C) Hearing impairment @	(a) Deaf	Less than 40% Disability		Equal to or more than 40% Disability
		(b) Hard of Hearing		-	
		<p>(*) Persons with Visual impairment / visual disability of more than 40% may be made eligible to pursue Graduate B.U.M.S. Education and may be given reservation, subject to the condition that the visual disability is brought to a level of less than the benchmark of 40% with advanced low vision aids such as telescopes / magnifiers etc.</p> <p>@ Persons with hearing disability of more than 40% may be made eligible to pursue Graduate B.U.M.S. Education and may be given reservation, subject to the condition that the hearing disability is brought to a level of less than the benchmark of 40% with the aid of assistive devices.</p> <p>In addition to this, the individual should have a speech discrimination score of more</p>			

		than 60%.			
	(D) Speech & language disability§	Organic/ neurological causes	Less than 40% Disability	-	Equal to or more than 40% Disability
		<p>§ It is proposed that for admission to B.U.M.S. programme the Speech Intelligibility Affected (SIA) score shall not exceed 3 (Which will correspond to less than 40%) to be eligible to pursue the B.U.M.S. programme. The individuals beyond this score will not be eligible for admission to the B.U.M.S. programme.</p> <p>Persons with an Aphasia Quotient (AQ) upto 40% may be eligible to pursue B.U.M.S. programme but beyond that they will neither be eligible to pursue the B.U.M.S. programme nor will they have any reservation.</p>			

2.	Intellectual disability		(a) Specific learning disabilities (Perceptual disabilities, Dyslexia, Dyscalculia, Dyspraxia & Developmental aphasia)#	# Currently there is no Quantification scale available to assess the severity of SpLD, therefore the cut-off of 40% is arbitrary and more evidence is needed.	Less than 40% Disability	Equal to or more than 40% disability But selection will be based on the learning competency evaluated with the help of the remediation/ assisted technology/ aids/ infrastructural changes by the Expert Panel	More than 80% or severe nature or significant cognitive/ intellectual disability
			(b) Autism spectrum disorders	Absence or Mild Disability, Asperger syndrome (disability of 40-60% as per ISAA) where the individual is deemed fit for B.U.M.S. programme by an expert panel	Currently not recommended due to lack of objective method to establish presence and extent of mental illness. However, the benefit of reservation/quota may be considered in future after developing better methods of disability assessment.	Equal to or more than 60% disability or presence of cognitive/intellectual disability and/or if the person is deemed unfit for pursuing B.U.M.S.. programme by an expert panel	
3.	Mental behaviour		Mental illness	Absence or mild Disability: less than 40% (under IDEAS)	Currently not recommended due to lack of objective method to establish presence and extent of mental illness. However, the benefit of reservation/quota may be considered in future after developing better	Equal to or more than 40% disability or if the person is deemed unfit to perform his/her duties. Standards may be drafted for the definition of "fitness to practice medicine", as are used by several institutions of countries other than India.	

					methods of disability assessment.	
4.	Disability caused due to	(a)Chronic Neurological Conditions	(i) Multiple Sclerosis	Less than 40% Disability	40-80% disability	More than 80%
			(ii) Parkinsonism			
	(b)Blood Disorders	(i) Haemophilia	Less than 40% Disability	40-80% disability	More than 80%	
		(ii) Thalassemia				
(iii) Sickle cell disease						
5.	Multiple disabilities including deaf blindness		More than one of the above specified disabilities	<p>Must consider all above while deciding in individual cases recommendations with respect to presence any of the above, namely, Visual, Hearing, Speech & Language disability, Intellectual Disability, and Mental Illness as a component of Multiple Disability.</p> <p>Combining Formula as notified by the related Gazette Notification issued by the Govt. of India <u>a + b (90-a)</u></p> <p style="text-align: center;">90</p> <p>(where a= higher value of disability % and b=lower value of disability % as calculated for different disabilities) is recommended for computing the disability arising when more than one disabling condition is present in a given individual. This formula may be used in cases with multiple disabilities, and recommendations regarding admission and/or reservation made as per the specific disabilities present in a given individual</p>		

Note: For selection under PwD category, candidates will be required to produce Disability Certificate before their scheduled date of counseling from one of the disability assessment boards as designated by the concerned Authority of Government of India.

Annexure I

**A. TENTATIVE TEMPLATE OF ACADEMIC CALENDAR
FIRST PROFESSIONAL B.U.M.S (18 MONTHS)**

Sl. No.	DATE/PERIOD	ACADEMIC ACTIVITY
1.	First Working Day of October	Course Commencement
2.	15 working Days	Induction Programme & Transitional Curriculum
3.	Fourth Week of March	First Internal Assessment
4.	Three weeks in May	Summer Vacation
5.	Fourth Week of September	Second Internal Assessment
6.	First and Second week of February	Preparatory holidays
7.	Third week of February onwards	University Examination
8.	<i>First Working Day of April</i>	<i>Commencement of Second Prof. B.U.M.S</i>
NOTE.-	<p>(3) Universities/Institutions/Colleges shall specify dates and year while preparing academic calendar of that particular batch of students. The same is to be informed to students, displayed in respective websites and followed.</p> <p>(4) Institutions/Colleges established in Extreme Weather Conditions may adjust the vacation as required by maintaining the stipulated hours of teaching. However, the structure of academic calendar shall not be altered.</p>	

**B. TENTATIVE TEMPLATE OF ACADEMIC CALENDAR
SECOND PROFESSIONAL B.U.M.S (18 MONTHS)**

Sl.No.	DATE/PERIOD	ACADEMIC ACTIVITY
1.	First Working Day of April	Course Commencement
2.	Fourth Week of September	First Internal Assessment
3.	Fourth Week of March	Second Internal Assessment
4.	Three weeks in May	Summer Vacation
5.	First and Second week of August	Preparatory holidays
6.	Third week of August onwards	University Examination
7.	<i>First Working Day of October</i>	<i>Commencement of Third Prof. B.U.M.S</i>

NOTE.-	<p>(3)Universities/Institutions/Colleges shall specify dates and year while preparing academic calendar of that particular batch of students. The same is to be informed to students, displayed in respective websites and followed.</p> <p>(4)Institutions/Colleges established in Extreme Weather Conditions may adjust the vacation as required by maintaining the stipulated hours of teaching. However, the structure of academic calendar shall not be altered.</p>
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**C. TENTATIVE TEMPLATE OF ACADEMIC CALENDAR THIRD
PROFESSIONAL B.U.M.S (18 MONTHS)**

Sl. No.	DATE/PERIOD	ACADEMIC ACTIVITY
1.	First Working Day of October	Course Commencement
2.	Fourth Week of March	First Internal Assessment
3.	Three weeks in May	Summer Vacation
4.	Fourth Week of September	Second Internal Assessment
5.	First and Second week of February	Preparatory holidays
6.	Third week of February onwards	University Examination
7.	<i>First Working Day of April</i>	<i>Commencement of Internship</i>
NOTE.-	<p>(3)Universities/Institutions/Colleges shall specify dates and year while preparing academic calendar of that particular batch of students. The same is to be informed to students, displayed in respective websites and followed.</p> <p>(4)Institutions/Colleges established in Extreme Weather Conditions may adjust the vacation as required by maintaining the stipulated hours of teaching. However, the structure of academic calendar shall not be altered.</p>	

ANNEXURE II

**GUIDELINES FOR ATTENDANCE MAINTENANCE
(THEORY/PRACTICAL/CLINICAL/NON-LECTURE HOURS)**

Institutes/Colleges offering education in various courses in Indian System of Medicine are recommended to maintain online attendance system. However, in case physical registers are being maintained for recording attendance of various teaching/training activities, the following guidelines are to be followed:

- (1) Attendance is to be marked in cumulative numbering fashion as under-
 - (a) In case presence is to be marked as 1, 2, 3, 4, 5, 6.....so on;
 - (b) In case of absence, it must be marked as ‘A’;
 - (c) Example: P P P P A P P AA P P P.... may be marked as (1, 2, 3, 4, A, 5, 6, A, A, 7, 8, 9...).
- (2) Avoid strictly marking ‘P’ for presence.
- (3) Separate register for Theory and practical/clinical/non-lecture activities are to be maintained.
- (4) At the end of term or course or part of syllabus or month the last number to be taken as total attendance.

- (5) The total attendance after students' signature to be certified by respective HOD followed by approval by Principal.
- (6) In case of multiple terms, at the end of professional session all term attendance is to be summarised and percentage is to be calculated separately for **theory** and **practical/clinical**s including all non-lecture hours.

Annexure

III FORM 1

[See regulation 14(e)(ix)(B,C,D)]

(NAME OF THE COLLEGE AND ADDRESS)
**KAMILE TIB O JARAHAT (BACHELOR OF
 UNANI MEDICINE AND SURGERY-B.U.M.S)
 PROGRAMME**

DEPARTMENT OF _____

**CERTIFICATE OF ATTENDANCE AND ASSESSMENT OF INTERNSHIP
 (Register No.)**

Name of the Intern :

Attendance during internship

Period of training : From _____ To _____

(e) No. of Working Days :

(f) No. of Days Attended :

(g) No. of Days Leave availed :

(h) No of Days Absent :

Assessment of Internship

Sl.No.	Category	Marks Obtained
3.	General	Maximum 10
f.	Responsibility and Punctuality	(___) out of 2
g.	Behavior with sub-ordinates, Colleagues and superiors	(___) out of 2
h.	Documentation ability	(___) out of 2
i.	Character and conduct	(___) out of 2
j.	Aptitude for research	(___) out of 2
4.	Clinical	Maximum 20
d.	Proficiency in Fundamentals of subject	(___) out of 4
e.	Bedside manners & Rapport with patient	(___) out of 4
f.	Clinical acumen and Competency as acquired	
iv.	by Performing Procedures	(___) out of 4
v.	by Assisting in Procedures	(___) out of 4

vi.	by Observing Procedures	(___) out of 4
	Total Score Obtained	(___) out of 30

Performance Grade of marks

Poor <8, Below average 9-14, Average 15-21, Good 22 -25, Excellent 26 and above

Note: An intern obtained unsatisfactory score (below 15) shall be required to repeat one third of the total period of posting in the concerned department.

Signature of the Intern

Signature of the Head of the Department

Office Seal

Date:

Place:

Annexure-

IV FORM 2

[See regulation 14(e)(ix)(C)]

(NAME OF THE COLLEGE AND ADDRESS)

KAMILE TIB O JARAHAT

(BACHELOR OF UNANI MEDICINE AND SURGERY-B.U.M.S) PROGRAMME

CERTIFICATE OF COMPLETION OF THE COMPULSORY ROTARY

INTERNSHIP

This is to certify that (NAME OF THE INTERN) Intern of (NAME OF THE COLLEGE AND ADDRESS), has completed his/her Compulsory Rotatory Internship at the (NAME OF THE COLLEGE AND ADDRESS/PLACE OF

POSTING), for the duration of One year from toin the following departments;

S.No.	Name of the Department/Institute	Period of training from (dd/mm/yyyy)	Period of training to (dd/mm/yyyy)

During the internship period the conduct of the student is.....

Signature of the Principal/Dean/Director

Office Seal

Date:

Place:

RAGURAMA BHATTA. U, Secy. I/C

[ADVT.-III/4/Exty./664/2021-22]

Note: If any discrepancy is found between Hindi and English version of National Commission for Indian System of Medicine (Minimum Standard of Undergraduate Unani Education) Regulations 2022, the English version will be treated as the final.

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URDU, ARABIC PAPER 1

Sl No	Topic	Hrs	Learning content distribution			Weightage
			Must Know	Desirable to know	Nice to know	
Urdu						
Topic 1: Huroof-e- Tahajji, Huroof ki Mufrad aur Murakkab Shaklen, Huroof ki Ibtidai, darmiyani aur Akhri Shaklen, Hakari shaklen, Ham Saut Huroof, Musawwate aur musammate, Huroof ki Aqsaam-Rabt, Atf, Takhsees, Fujaiyyah, Waw Madoola, waw Atf, Khada Alif, Alif Maqsoora, Alif Mamdooda Alif wasl. Erab, Tanween, Tashdeed, Mad, Harfe Jaza, Harfe Shart, Harfe Istisna.						
1	Identify Huroof-e-Tahajji by reading and writing them.	1 hrs	MK	--	--	0
2	Differentiate between the Musawwate (Vowel) and Musammate (Consonant) through reading and writing.	30 min	--	DK	--	
3	Identify the Ham Saut Huroof, describe the Huroof that have similar sound, as well as those which despite having similar sound bear difference in pronunciation.	30 min	--	DK	--	
4	Describe Hakari Huroof with correct pronunciation and write them correctly through dictation.	30 min	MK	--	--	
5	Identify Mufrad and Murakkab Huroof, and describe the beginning, middle and last forms of Huroof through reading and writing. And define those Huroof whose beginning, middle and last forms are similar.	30 min	MK	--	--	
6	Define Rabt, Atf, Takhsees, Fujaiyyah, waw Madoola, waw Atf, khada alif, alif Maqsoora, alif wasl, and describe their usages through writing and reading.	30 min	MK	--	--	
7	Demonstrate the comprehension of Erab i.e. Zabar, Zer, Pesh, Ulta Pesh and Jazm by reading out texts.	30 min	--	DK	--	
Topic 2: Lafz (Kalma)- Maddah – Ishtiqaq – Do Harfi Lfz, She Harfi Lafz, Chahaar Harfi Lfz- Ism aur Uski Qismen-Fe'l aur uski Halaten- Zameer aur uski Qismen- Sifat aur uski Qismen. Qawaid: Mufrad Lafz- Pecheeda Lafz-Murakkab Lafz- Taradufi Murakkab, Murakkabate Rabti, Murakkabate Tauseefi, Murakkabate Adadi- Tabe Muhmal, Izafat, Tasniya, Wahid/Jama, Tazkeer wa Tanees (Jins), Azdaad, Sabqe aur Laheqe.						
8	Define Mufrad Lafz, explain it by examples and demonstrate it through reading and dictation writing.	45 min	MK	--	--	5
9	Define Pecheeda Lafz, explain it by examples and demonstrate it through reading and dictation writing.		MK	--	--	

10	Describe the main difference between Mufrad Lafz and Pecheeda Lafz.	45 min	MK	--	--	
11	Define Murakkab Lafz and explain its different forms through examples and explain the main difference between Mufrad, Pecheeda and Murakkab Alfaaz.		MK	--	--	
12	Identify Taradufi Murakkab, Murakkabat e Rabti, Murakkabat eTauseefi and Murakkabat e Adadi. .	45 min	MK	--		
13	Define Tabe Muhmal and explain it by examples.		MK	--		
14	Define Izafat, explain Muzaf, Muzaf ilaih and Harfe Izafat, Izafat Harfi/Lafzi, Izafate Erabi and the ways of Izafat of Persian and Arabic languages.	45 min	MK	--	--	
15	Describe the ways of making Wahid, Tasniya and Jama through examples.		MK		--	
16	Define Muzakkar and Muannas, explain the ways and rules of formulating Muzakkar and Muannas and mention their principles in Persian and Arabic languages, especially as per what is prevalent and used in Urdu.	30 min	MK		--	
17	Define Zid, identify its kinds and explain the difference between Mutazaad Mukhalif, Mutazaad Jinsi and Mutazaad Mutaradifi by examples.	30 min	MK		--	
Topic 3: Mustaqil Alfaaz ki qismen: Ism, Sifat, Zameer, Fe'l, Tameez, Ism ki Aqsaam: Ism Khas, Ism Aam, Ism Aam ki Aqsaam: Ism kifiyat, Ism Jama, Isme Zarf, Ism Aala, Sifat ki Aqsaam : Sifat Zati, Safat Nisbti, Sifat Adadi, Sifat Miqdaari, Sifat Zameeri, Zameer ki Aqsaam: Shakhsi, Mausoola, istifhamiya, Ishara, Tankeer.						
18	Identify Mustaqil Alfaaz, explain their kinds i.e. Ism, Sifat, Zameer, Feal and Tameez.	1 hrs	--	DK	--	5
19	Define Ism, identify its kinds, difrentiate between Ism Aam and Ism Khaas, and explain Ism Kaifiyat, Ism Jama, Ism Zarf and Ism Aala by examples.	1 hrs	MK	--	--	
20	Define Sifat, identify its kinds, and explain Sifat Zati, Sifat Nisbati, Sifat Adadi, Sifat Miqdari and Sifat Zameeri.	1 hrs	MK		--	
21	Define Zameer, identify its kinds and explain Zameer Shakhsi, Zameer Mausoola, Zameer	1 hrs	MK		--	

	Istifhamiya, Zameer Ishara and Zameer Tankeeri.					
<p>Topic 4: Fe'l ke Zamane: Mazi, Hal, Mustaqbil, Fe'l ki Halaten Mana ke Etebar se: lazim, Muta'addi, Naqis, Fe'l ki Surten: Khabari, Sharti, Ehtemali, Amri and Masdari, Fe'l ke Seghe: Ghaib, Hazir, Mutakallim, Afaal Mazi ki Aqsaam: Mazi Mutlaq, Mazi Natamaam, Mazi Tamaam, Mazi Shartiya, Mazi Tamannai, Mazi Ehtemali, Afaal Hal ki Aqsaam: Muzare, Amr, Hal Mutlaq, Hal Natamaam, Hal Ehtemali, Afaal Mustaqbil ki Aqsaam: Mustaqbil Mutlaq, Mustaqbil Madaami. Ghair Mustaqil Alfaaz ki Qismen: Rabt, Atf, Takhsees, Fujaiyah.</p>						
22	Define Murakkab Naqis and its kinds.	30 min		DK		5
23	Define Feal, describe its tenses i.e. Mazi, Hal, Mustaqbil, identify its conditions in terms of meaning i.e. Lazim, Mutaaddi and Naqqis, explain its forms i.e. Khabari, Sharti, Ehtemali, Amri and Masdari, and describe its Seeghe I.e. Ghaib, Hazir and Mutakallim .	30 min	MK			
24	Explain in detail the kinds of Afaal Mazi i.e. Mazi Mutlaq, Mazi Natamaam, Mazi Tamaam, Mazi Sharti, Mazi Tamannai, Mazi Ehtemali.	30 min	MK			
25	Give the detailed explanation of Afaal Hal's kinds i.e. Muzare, Amr, Hal Mutlaq, Hal Natamaam, Hal Ehtemali	30 min	MK			
26	Explain the kinds of Afaal Mustaqbili.e. Mustaqbil Mutlaq, Mustaqbil Mudaami.	30 min	MK			
27	Demonstrate proficiency in application of all the grammatical rules of Murakkab Tauseefi.	30 min	MK			
28	Analyze Murakkab Ishari by explaining Musharun ilaih being used with Al and without Al.	30 min		DK		
29	Define Ghair Mustaqil Alfaaz, describe their kinds, explain Rabt, Atf, Takhsees, Fujaiyah by examples.	30 min	--	DK		
<p>Topic 5: Jumla: Mufrad Jumla- Mubtada, Khabar, Fe'le Rabt. Murakkab Jumla: Ham Rutba Jumla, Tabe Jumla, Istidraki Jumla, Tardeedi Jumla, Alaamaat: Auqaaf ya Waqfa, Sakta, Waqfa, Rabta, Tafseela, Khatma, Sawalia, Fujaiya, ya Nidaiya, Qousain, Khat, Wawain, Zanjeerah.</p>						
30	Define Jumla, identify its components and their proper order i.e. Mubtada, Khabar and Feal e Rabt.	1 hrs	--	DK	--	10
31	Define Mufrad and Jumla and explain the difference between them.	1 hrs	MK	--	--	
32	Explain the Khabar as well as Feal, Fail, mafuool and muta'alliq e Feal	45 min	MK			
33	Explain Murakkab Jumla, Ham Rutba Jumla, Tabe Jumla, Istidraki Jumla, Tardeedi Jumla.	45 min	MK	--	--	
34	Illustrate Saada and Khabaria	30	MK	--	--	

	Jumle by writing examples.	min				
35	Define Alaamaat, explain different forms of Alaamaat i.e. Auqaaf or Waqfa- Sakta, Waqfa, Raabta, Tafseela, Khatma, Sawalia, Fujaiya, Nidaiya, and identify different ways of their usages.	30 min	MK	--	--	
36	Illustrate also Alaamaat like Qousain, Khat, Wawain, Zanjeerah, and the ways of their usages by writing examples.	30 min	MK	--	--	
Topic 6: Nazm-o-Nasr ke Chand Muntakhab Abwab:(Ghazal: Meer- Ulti Ho Gain Sab Tadbeeren, Ghalib- Dile Nadan Tujhe Huwa kiya Hai, Tarana Hindi- Allama Iqbal, Nazm: Raat- Ismail Merathi,Aawarah- Majaz, Khat Mir Mehdi ke Naam-Ghalib, Nazime Jahan Hakeem Azam Khan, Hakeem Ajmal Khan, Warzish ke Tareeqe aur Hidayaat, Tibbi Ash'aar, Marsiya Hakeem Mahmood Khan- Altaf Husain Haali, Tib ka Tareekhi Khaaka- Kamaluddin Hamdani, Rusoom wo Aadaat- Sir Syed, Eidgaah- Prem Chand, Qissa Hatim Tai- Meer Amman)						
37	Identify the sentences and analyse their structures	2 hrs	MK	--	--	10
38	Recognize different kinds of Urdu texts	2 hrs	MK	--	--	
39	Define the verse and prose and explain the distinguishing differences between them	2 hrs	MK	--	--	
40	Demonstrate good understanding of the language through reading and writing	2 hrs	MK	--	--	
41	Demonstrate the capability of using literary words of the language	1 hrs	MK	--	--	
Arabic						
Topic 7: Huroof-e-Hijaa, Huroofe Shamsiyyah wa Qamariyyah, Asma-e-Harakat wa Adaad						
42	Identify, read and write Huroof-e-Hijaa, join the Huroof with correct Harakat, and distinguish between Huroof-e Shamsiyyah and Qamariyyah.	1 hrs	MK	--	--	0
43	Describe Arabic numerals; differentiate between the cardinal and ordinal numbers.		MK	--	--	
44	Enumerate the numbers up to the hundred.		--	DK	--	
Topic 8: Kalimah aur uski Aqsaam, Ism, Fe'l, Harf.						
45	Identify Kalimah as a single meaningful unit of the sentence.	1 hrs	--	DK	--	10
46	Define and distinguish each kind of Kalimah.		MK	--	--	
47	Identify and enumerate the signs of noun, verb and particle.		--	DK	--	
48	Demonstrate the comprehension of the signs of each kind of Kalima by examples.		--	DK	--	
Topic 9: Ism ki Taqseem balehaz-e- Tareef-o-Tankeer, balehaz-e-Jins, balehaz-e-Adad						
49	Identify the bases of the noun classification.	1 hrs	--	--	NK	10
50	Explain the difference between		MK	--	--	

	Marifa and Nakira.					
51	Define and distinguish masculine and feminine words.		MK	--	--	
52	Enumerate the signs of the word's femininity.		MK	--	--	
53	Identify the singular and plural nouns.		MK	--	--	
54	Classify and distinguish the types of plural nouns.		MK	--	--	
55	Identify Jama Muzakkar Salim and Jama Muannas Salim.		MK	--	--	
Topic 10: Murakkab aur uski Aqşam.						
56	Identify Compound word (Murakkab).	1 hrs	--	DK	--	10
57	Classify the compound into complete (Taam) and incomplete (Naqis).		MK	--	--	
Topic 11: Murakkab-e- Naqis, Murakkab-e-Izafi, Murakkab-e-Tauseefi, Murakkab-e-Ishari.						
58	Define Murakkab Naqis and its kinds.	1 hrs	--	DK	--	10
59	Analyse Murakkab Izafi distinguishing Muzaf and Muzaf ilaih.		MK	--	--	
60	Enumerate the grammatical rules of both.		MK	--	--	
61	Produce examples of Murakkab Izafi.		MK	--	--	
62	Analyse Murakkab Tauseefi distinguishing Mausooof and Sifat.	1 hrs	MK	--	--	
63	Demonstrate proficiency in application of all the grammatical rules of Murakkab Tauseefi.		MK	--	--	
64	Analyze Murakkab Ishari by explaining Musharun ilaih being used with Al and without Al.		--	DK		
65	Demonstrate proficiency in creating plenty of examples of each kind of Murakkab Naqis.		--	DK	--	
Topic 12: Murakkab-e-Taam ya Kalam, Jumla Ismiyyah, Jumla Fe'liyyah.						
66	Categorize Murakkab Taam complete sentence into Jumla Ismiya and jumla Faeliyya.	2 hrs	--	DK	--	10
67	Demonstrate the comprehension of all the grammatical rules pertaining to Muftada and Khabar.		MK	--	--	
68	Compare between Jumla Ismiya and Murakkab Tauseefi.		MK	--	--	
Topic 13: Fe'l aur uski Aqşam ba etebar-e- Zamana: Mazi, Hal, Mustaqbil.						
69	Define the verb and identify its kinds in terms of past, present and future.	1 hrs	MK	--	--	10
70	Identify the structural signs of each tense of verb.		--	--	NK	
Topic 14: Gardan-e- Mazi aur uske Seeghe.						
71	Describe Gardan-e-Mazi, and identify all its Seeghe	1 hrs	MK	--	--	15

72	Distinguish each Seegha from the other.		MK	--	--	
73	Apply the Gardan-e-Mazi on several different verbs.		--	DK	--	
74	Use the Seeghe in group conversation.		--	--	NK	
Topic 15: Gardan-e-Muzare aur uske Seeghe.						
75	Describe Gardan-e-Muzare, identify all its Seeghe	1 hrs	MK	--	--	15
76	Distinguish each Seegha from the other.		MK	--	--	
77	Apply the Gardan-e-Muzare on several different verbs.		--	DK	--	
78	Use the Seeghe in group conversation.		--	--	NK	
Topic 16: Fe'l-e-Sulasi Mujarrad aur uske Abwab						
79	Enumerate and compare all the Abwab-e-Sulasi Mujarrad.	1 hrs	MK	--	--	15
80	Identify several different verbs under these Abwab.		--	DK	--	
Topic 17: Fe'l-e-Sulasi Mazeed aur uske Abwab.						
81	Identify and distinguish all Abwab-e-Sulasi Mazeed be Harf and their Seeghe	2 hrs	MK	--	--	15
82	Identify and distinguish all Abwab-e-Sulasi Mazeed be Harfain and their Seeghe		MK	--	--	
83	Identify Bab-e-Istif'aal only as Bab-e-Sulasi Mazeed be-Salasati Huroof.		MK	--	--	
84	Identify and describe several different verbs under these Abwab.		MK	--	--	
Topic 18: Fe'l-e- Rubae Mujarrad wa Mazeed						
85	Describe Fe'l-e-Rubai Mujarrad	1 hrs	MK	--	--	15
86	Describe Fe'l-e-Rubai Mazeed		--	--	NK	
Topic 19: Taqseem-e-Fe'l-e-Mazi-o-Muzare ba etebar-e-Marroof-o-Majhool.						
87	Define Marroof and Majhool and distinguish between them with their signs.	1 hrs	MK	--	--	15
88	Frame sentences using both Mazi and Muzare Marroof and Majhool		--	DK	--	
Topic 20: Gardan-e-Fe'l-e Amr-o-Nahi.						
89	Define Fe'l-e-Amr, and explain the steps to formulate it.	1 hrs	MK	--	--	15
90	Read out and write Gardan-e-Amr and use them in sentences.		MK	--	--	
91	Define Fe'l-e-Nahi, and explain the way of its formulation.		MK	--	--	
92	Read out and write Gardane-e-Nahi and use them in sentences.		MK	--	--	
Topic 21: Taqseem-e-Ism: Jamid, Masder wa Mushtaq, Ism-e-Fa'el, Ism-e- Mafool, Ism-e-Zarf, Ism-e- Alah, Ism-e Tafzeel wa Ism-e-Mubalaghah, Ism-e-Tasgheer, Sarfe Sagheer.						
93	Identify Ism-e-Jamid, Masder and Mushtaq	1 hrs	MK	--	--	15
93	Enumerate Asma-e-Mushtaqqa.	1 hrs	MK	--	--	
94	Explain the procedures of	30	MK	--	--	

	formulating Ism-e-Faael, Ism-e-Mafool and the other Nominal Derivatives from Maddah/Masder.	min				
94	Demonstrate proficiency in formulating Isme-e-Faael and Ism-e-Mafool from all the Abwaab-e-Sulasi Mujarrad, Sulasi Mazeed and Rubai.	30 min	MK	--	--	
Topic 22: Ierab, Tareef-o-Taqseem, Ierab bil Huroof, Ierab bil Harakat.						
95	Identify the significance of Ierab in determination of the meanings.	1 hrs	MK	--	--	5
96	Define Ierab bil Harakat		--	DK	--	
97	Locate the Ierab bil Huroof describing the particular Ierab of Tasniyah, Jama Muzakkar Salim and Asma-e-Sittah		MK	--	--	
Topic 23: Marfooat, Mansoobat, Majroorat.						
98	Define and enumerate All Marfooat, Mansoobat and Majroorat.	2 hrs	MK	--	--	5
Topic 24: Zamair Marfooah, Majroorah-o-Mansoobah, Asma-e-Isharah, Asma-e-Istifham, Asma-e-Mausoolah.						
99	Define Zamaair, enumerate their Seeghe, distinguish between Munfasilah and Muttasilah, and use them in sentences.	1 hrs	--	DK	--	5
100	Define Asma-e-Isharah, describe their Seeghe, and use them in sentences.	30 min	--	DK	--	
101	Define Asma-e-Mausoolah , mention their Seeghe and use them in sentences.	30 min	--	--	NK	
Topic 25: Arabi Tibbi Istilahat-o-Alfaz ka Jumlon me Istemal.						
102	Identify the Arabic names of human body organs with correct spelling and pronunciation.	1 hrs	MK	--	--	10
103	Construct Arabic sentences using the body parts' names.	30 min	--	DK	--	
104	Identify the Arabic names of diseases with correct spelling and pronunciation.	30 min	MK	--	--	
105	Construct sentences using the Arabic names of diseases.	30 min	--	DK	--	
106	Identify the Arabic names of medical instruments and equipments with their correct spelling and pronunciation.	30 min	MK	--	--	
107	Make sentences in Arabic using the medical equipments' names.	30 min	--	DK	--	
108	Identify the Arabic names of Unani drugs with their correct spelling and pronunciation.	30 min	MK	--	--	
109	Frame sentence in Arabic using the Unani drugs' names.	30 min	--	DK	--	
110	Understand and recite Arabic Tibbi verses	30 min	MK	--	--	

For Teaching Program
List non lecture Teaching-Learning methods
Urdu and Arabic Paper 1

Sl. No	Topics	Non lecture Teaching-Learning methods
1	Identify Huroof-e-Tahajji by reading and writing them.	Tutorial
2	Differentiate between the Musawwate (Vowel) and Musammate (Consonant) through reading and writing.	Audio Lingual method
3	Identify the Ham Sout Huroof, describe the Huroof that have similar sound, as well as those which despite having similar sound bear difference in pronunciation.	Audio Lingual method
4	Identify Mufrad and Murakkab Huroof, and describe the beginning, middle and last forms of Huroof through reading and writing. And define those Huroof whose beginning, middle and last forms are similar.	Problem Solving method
5	Define Rabt, Atf, Takhsees, Fujaaiyyah, waw Madoola, waw Atf, khada alif, alif Maqsoora, alif wasl, and describe their usages through writing and reading.	Problem Solving method
6	Demonstrate the comprehension of Erab i.e. Zabar, Zer, Pesh, Ulta Pesh and Jazm by reading out texts.	Group discussion
7	Define Mufrad Lafz, explain it by examples and demonstrate it through reading and dictation writing.	Tutorial
8	Describe the main difference between Mufrad Lafz and Pecheeda Lafz.	Group discussion
9	Define Murakkab Lafz and explain its different forms through examples and explain the main difference between Mufrad, Pecheeda and Murakkab Alfaaz.	Tutorial
10	Define Tabe Muhmal and explain it by examples.	Tutorial
11	Define Izafat, explain Muzaf, Muzaf ilaih and Harfe Izafat, Izafat Harfi/Lafzi, Izafate Erabi and the ways of Izafat of Persian and Arabic languages.	Group Discussion.
12	Describe the ways of making Wahid, Tasniya and Jama through examples.	Group Discussion.
13	Define Muzakkar and Muannas, explain the ways and rules of formulating Muzakkar and Muannas and mention their principles in Persian and Arabic languages, especially as per what is prevalent and used in Urdu.	Group Discussion.
14	Define Zid, identify its kinds and explain the difference between Mutazaad Mukhalif, Mutazaad Jinsi and Mutazaad Mutaradifi by examples.	Group Discussion.
15	Define Ism, identify its kinds, differentiate between Ism Aam and Ism Khaas, and explain Ism Kaifiyat, Ism Jama, Ism Zarf and Ism Aala by examples.	Tutorial
16	Define Sifat, identify its kinds, and explain Sifat Zati, Sifat Nisbati, Sifat Adadi, Sifat Miqdari and Sifat Zameeri.	Group Discussion.

17	Define Zameer, identify its kinds and explain Zameer Shakhsi, Zameer Mausoola, Zameer Istifhamiya, Zameer Ishara and Zameer Tankeeri.	Group Discussion.
18	Define Feal, describe its tenses i.e. Mazi, Hal, Mustaqbil, identify its conditions in terms of meaning i.e. Lazim, Mutaaddi and Naqqis, explain its forms i.e. Khabari, Sharti, Ehtemali, Amri and Masdari, and describe its Seeghe I.e. Ghaib, Hazir and Mutakallim .	Problem Solving method Group Discussion.
19	Give the detailed explanation of Afaal Hal's kinds i.e. Muzare, Amr, Hal Mutlaq, Hal Natamaam, Hal Ehtemali	Team based learning
20	Explain the kinds of Afaal Mustaqbili.e. Mustaqbil Mutlaq, Mustaqbil Mudaami.	Problem Solving method
21	Demonstrate proficiency in application of all the grammatical rules of Murakkab Tauseefi.	Team based learning Peer Assisted Learning, Group Discussion.
22	Define Ghair Mustaqil Alfaaz, describe their kinds, explain Rabt, Atf, Takhsees, Fujaiyah by examples.	Team based learning Peer Assisted Learning, Group Discussion.
23	Define Mufrad and Jumla and explain the difference between them.	Team based learning Peer Assisted Learning, Group Discussion
24	Explain the Khabar as well as Feal, Fail, mafuool and muta'alliq e Feal	Problem Solving method
25	Explain Murakkab Jumla, Ham Rutba Jumla, Tabe Jumla, Istidraki Jumla, Tardeedi Jumla.	Group Discussion
26	Illustrate Saada and Khabaria Jumle by writing examples.	Group Discussion
27	Define Alaamaat, explain different forms of Alaamaat i.e. Auqaaf or Waqfa- Sakta, Waqfa, Raabta, Tafseela, Khatma, Sawalia, Fujaiya, Nidaiya, and identify different ways of their usages.	Group Discussion
28	Illustrate also Alaamaat like Qousain, Khat, Wawain, Zanjeerah, and the ways of their usages by writing examples.	Group Discussion
29	Identify the sentences and analyse their structures	Group Discussion
30	Recognize different kinds of Urdu texts	Group Discussion
31	Demonstrate good understanding of the language through reading and writing	Group Discussion
32	Demonstrate the capability of using literary words of the language	Group Discussion
33	Identify, read and write Huroof-e-Hijaa, join the Huroof with correct Harakat, and distinguish between Huroof-e Shamsiyyah and Qamariyyah.	Tutorial Bilingual Method
34	Describe Arabic numerals; differentiate between the cardinal and ordinal numbers.	Tutorial Audio Lingual Method Total Physical Responses
35	Enumerate the numbers up to the hundred.	Audio Lingual Method Natural Approach
36	Identify Kalimah as a single meaningful unit of the sentence.	Audio Lingual Method
37	Define and distinguish each kind of Kalimah.	Tutorial Problem Solving method
38	Identify and enumerate the signs of noun, verb and particle.	Problem Solving method
39	Demonstrate the comprehension of the signs of each kind of Kalima by examples.	Structural Approach
40	Identify the bases of the noun classification.	Tutorial
41	Explain the difference between Marifa and Nakira.	Bilingual Method

42	Define and distinguish masculine and feminine words.	Group Discussion
43	Enumerate the signs of the word's femininity.	Tutorial Structural Approach
44	Identify the singular and plural nouns.	Structural Approach
45	Classify and distinguish the types of plural nouns.	Tutorial Structural Approach
46	Identify Jama Muzakkar Salim and Jama Muannas Salim.	Structural Approach Group Discussion
47	Classify the compound into complete (Taam) and incomplete (Naqis).	Tutorial
48	Analyse Murakkab Izafi distinguishing Muzaf and Muzaf ilaih.	Bilingual Method Problem Solving method
49	Enumerate the grammatical rules of both.	Bilingual Method
50	Produce examples of Murakkab Izafi.	Team Based Learning
51	Analyse Murakkab Tauseefi distinguishing Mausooof and Sifat.	Bilingual Method Problem Solving method
52	Demonstrate proficiency in application of all the grammatical rules of Murakkab Tauseefi.	Team Based Learning Peer Assisted Learning
53	Analyze Murakkab Ishari by explaining Musharun ilaih being used with Al and without Al.	Bilingual Method
54	Demonstrate proficiency in creating plenty of examples of each kind of Murakkab Naqis.	Team Based Learning Peer Assisted Learning
55	Categorize Murakkab Taam complete sentence into Jumla Ismiya and jumla Faeliyya.	Bilingual Method
56	Demonstrate the comprehension of all the grammatical rules pertaining to Mubtada and Khabar.	Team Based Learning Peer Assisted Learning
57	Compare between Jumla Ismiya and Murakkab Tauseefi.	Problem Solving method
58	Define the verb and identify its kinds in terms of past, present and future.	Bilingual Method
59	Identify the structural signs of each tense of verb.	Structural Approach
60	Describe Gardan-e-Mazi, and identify all its Seeghe	Bilingual Method
61	Distinguish each Seegha from the other.	Structural Approach
62	Apply the Gardan-e-Mazi on several different verbs.	Team Based Learning Peer Assisted Learning
63	Use the Seeghe in group conversation.	Team Based Learning Peer Assisted Learning
64	Describe Gardan-e-Muzare, identify all its Seeghe	Bilingual Method
65	Distinguish each Seegha from the other.	Structural Approach
66	Apply the Gardan-e-Muzare on several different verbs.	Team Based Learning Peer Assisted Learning
67	Use the Seeghe in group conversation.	Team Based Learning Peer Assisted Learning Communicative Approach
68	Enumerate and compare all the Abwab-e-Sulasi Mujarrad.	Structural Approach
69	Identify several different verbs under these Abwab.	Team Based Learning
70	Identify and distinguish all Abwab-e-Sulasi Mazeed be Harf and their Seeghe	Structural Approach
71	Identify and distinguish all Abwab-e-Sulasi Mazeed be Harfain and their Seeghe	Structural Approach

72	Identify and describe several different verbs under these Abwab.	Team Based Learning Peer Assisted Learning
73	Define Maroof and Majhool and distinguish between them with their signs.	Structural Approach
74	Frame sentences using both Mazi and Muzare Maroof and Majhool	Team Based Learning Communicative Approach
75	Define Fe'l-e-Amr, and explain the steps to formulate it.	Structural Approach
76	Read out and write Gardan-e-Amr and use them in sentences.	Natural Approach Simulation
77	Define Fe'l-e-Nahi, and explain the way of its formulation.	Structural Approach
78	Read out and write Gardane-e-Nahi and use them in sentences.	Natural Approach Simulation
79	Identify Ism-e-Jamid, Masder and Mushtaq	Structural Approach
80	Enumerate Asma-e-Mushtaqah.	Group Discussion
81	Explain the procedures of formulating Ism-e-Faael, Ism-e-Mafool and the other Nominal Derivatives from Maddah/Masder.	Structural Approach Group Discussion
82	Demonstrate proficiency in formulating Isme-e-Faael and Ism-e-Mafool from all the Abwaab-e-Sulasi Mujarrad, Sulasi Mazeed and Rubai.	Team Based Learning Peer Assisted Learning
83	Locate the Ierab bil Huroof describing the particular Ierab of Tasniyah, Jama Muzakkar Salim and Asma-e-Sittah	Problem Solving method
84	Define and enumerate All Marfoot, Mansoobat and Majroorat.	Problem Solving method
85	Define Asma-e-Isharah, describe their Seeghe, and use them in sentences.	Group Discussion
86	Define Asma-e-Mausoolah , mention their Seeghe and use them in sentences.	Group Discussion
87	Identify the Arabic names of human body organs with correct spelling and pronunciation.	Team Based Learning Natural and Communicative Approach
88	Construct Arabic sentences using the body parts' names.	Team Based Learning Natural and Communicative Approach
89	Identify the Arabic names of diseases with correct spelling and pronunciation.	Team Based Learning Natural and Communicative Approach
90	Construct sentences using the Arabic names of diseases.	Team Based Learning Natural and Communicative Approach
91	Identify the Arabic names of medical instruments and equipments with their correct spelling and pronunciation.	Team Based Learning Natural and Communicative Approach
92	Make sentences in Arabic using the medical equipments' names.	Team Based Learning Natural and Communicative Approach
93	Identify the Arabic names of Unani drugs with their correct spelling and pronunciation.	Team Based Learning Natural and Communicative Approach
94	Frame sentence in Arabic using the Unani drugs' names.	Team Based Learning Natural and Communicative Approach
95	Understand and recite Arabic Tibbi verses	Audio Lingual Method

Scheme of assessment (Formative and Summative)
URDU AND ARABIC PAPER 1

Sl.No	PROFESSIONAL COURSE	Topics for Assessment			Term Test Topics (E)
		1 st PA Topics (A-1,2,3)	2 nd PA Topics (B-1,2,3)	3 rd PA Topics (C-1,2,3)	

1	First term (1-6 months)	<p>1. Huroof-e- Tahajji, Huroof ki Mufrad aur Murakkab Shaklen, Huroof ki Ibtidai, darmiyani aur Akhri Shaklen, Hakari shaklen, Ham Saut Huroof, Musawwate aur musammate, Huroof ki Aqsaam-Rabt, Atf, Takhsees, Fujaiyyah, Waw Madoola, waw Atf, Khada Alif, Alif Maqsoora, Alif Mamdooda Alif wasl. Erab, Tanween, Tashdeed, Mad, Harfe Jaza, Harfe Shart, Harfe Istisna.</p> <p>2. Lafz (Kalma)- Maddah – Ishtiqaq – Do Harfi Lfz, She Harfi Lafz, Chahaar Harfi Lfz- Ism aur Uski Qismen- Fe’l aur uski Halaten- Zameer aur uski Qismen- Sifat aur uski Qismen. Qawaid: Mufrad Lafz- Pecheeda Lafz-Murakkab Lafz- Taradufi Murakkab, Murakkabate Rabti, Murakkabate Tauseefi, Murakkabate Adadi- Tabe Muhmal, Izafat, Tasniya, Wahid/Jama, Tazkeer wa Tanees (Jins), Azdaad, Sabqe aur Laheqe.</p>	<p>1. Mustaqil Alfaaz ki qismen: Ism, Sifat, Zameer, Fe’l, Tameez, Ism ki Aqsaam: Ism Khas, Ism Aam, Ism Aam ki Aqsaam: Ism kifiyat, Ism Jama, Isme Zarf, Ism Aala, Sifat ki Aqsaam : Sifat Zati, Safat Nisbti, Sifat Adadi, Sifat Miqdaari, Sifat Zameeri, Zameer ki Aqsaam: Shakhsi, Mausoola, istifhamiya, Ishara, Tankeer.</p> <p>2. Fe’l ke Zamane: Mazi, Hal, Mustaqbil, Fe’l ki Halaten Mana ke Etebar se: lazim, Muta’addi, Naqis, Fe’l ki Surten: Khabari, Sharti, Ehtemali, Amri and Masdari, Fe’l ke Seghe: Ghaib, Hazir, Mutakallim, Afaal Mazi ki Aqsaam: Mazi Mutlaq, Mazi Natamaam, Mazi Tamaam, Mazi Shartiya, Mazi Tamannai, Mazi Ehtemali, Afaal Hal ki Aqsaam: Muzare, Amr, Hal Mutlaq, Hal Natamaam, Hal Ehtemali, Afaal Mustaqbil ki Aqsaam: Mustaqbil Mutlaq, Mustaqbil Madaami. Ghair Mustaqil Alfaaz ki Qismen: Rabt, Atf, Takhsees, Fujaiyyah.</p>	<p>1. Jumla: Mufrad Jumla- Mubtada, Khabar, Fe’le Rabt. Murakkab Jumla: Ham Rutba Jumla, Tabe Jumla, Istidraki Jumla, Tardeedi Jumla, Alaamaat: Auqaaf ya Waqfa, Sakta, Waqfa, Rabta, Tafseela, Khatma, Sawalia, Fujaiya, ya Nidaiya, Qousain, Khat, Wawain, Zanjeerah.</p> <p>2. (Ghazal: Meer- Ulti Ho Gain Sab Tadbeeren, Ghalib- Dile Nadan Tujhe Huwa kiya Hai, Tarana Hindi- Allama Iqbal, Nazm: Raat- Ismail Merathi, Aawarah- Majaz, Khat Mir Mehdi ke Naam- Ghalib, Nazime Jahan Hakeem Azam Khan, Hakeem Ajmal Khan, Warzish ke Tareeqe aur Hidayaat, Tibbi Ash’aar, Marsiya Hakeem Mahmood Khan- Altaf Husain Haali, Tib ka Tareekhi Khaaka- Kamaluddin Hamdani, Rusoom wo Aadaat- Sir Syed, Eidgaah- Prem Chand, Qissa Hatim Tai- Meer Amman)</p>	<p>1. Huroof.</p> <p>2. Ism and Fe’l</p> <p>3. Jumla</p>
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2	<p>Second Term (7-12 months)</p>	<p>1.Huroof-e-Hija, Huroof-e-Shamsiyyah, wa Qamariyyah, Asma-e- Harakaat –o-A’adad. (Arabic Alphabet, Solar and Lunar Letters, Arabic Vowels and Numerals.)</p> <p>2.Kalimah aur uski Aqsam Ism, Fe’l, Harf. (Word and its kinds, Noun, Verb, Particle).</p> <p>3.Ism ki Taqseem balehaz-e-Tareef-o-Tamkeer, balehaz-e-Jins, balehaz-e-Adad. (Kinds of Noun according to definition like (Definite noun, Indefinite noun), Gender, and Number).</p> <p>4.Murakkab aur uski aqsam. (Compound word and its kinds).</p> <p>5.Murakkab-e-Naqis: Murakkab-e-Izafi, Murakkab-e-Tauseefi, Murakkab-e-Ishari. (Incomplete Compound: Possessive Compound, Adjectival Compound, Demonstrative Compound)</p>	<p>1.Murakkab-e-Taam ya Kalam, Jumlah Ismiyyah, Jumlah Fe’liyyah.(Complete Murakkab, or Sentence, Nominal Sentence, Verbal Sentence).</p> <p>2.Fe’l aur uski Aqsam ba etebar-e-Zamana: Mazi, Hal, Mustaqbil. (Verb and its kinds according to Tense: Past, Present and Future).</p> <p>3.Gardan-e-Mazi aur uske Seeghe. (Conjugation of Past tense and its Moods)</p> <p>4.Gardan-e-Muzare aur uske Seeghe. (Conjugation of Indefinite Present and Future Tense and its Moods).</p> <p>5.Fe’l-e-Sulasi Mujarrad aur uske Abwab. (Triliteral Primitive Verb and its Patterns).</p>	<p>1.Fe’l-e-Sulasi Mazeed aur uske Abwab (Triliteral Derived Verb and its Patterns).</p> <p>2.Fe’l-e-Rubae Mujarrad wa Mazeed. (Quadriliteral Verb, Primitive and Derived)</p> <p>3.Taqseem-e- Fe’l-e- Mazi-o- Muzare ba etebar-e Maroof-o- Majhool.(Division of Past and Indefinite Present Tense according to Active and Passive).</p> <p>4.Gardan-e- Fe’l-e Amr-o- Nahi. (Conjugation of Imperative and Prohibitive Verb).</p>	<p>1.Kalima aur us ke aqsam</p> <p>2.Fe’l aur us ki garden</p> <p>3. 1.Fe’l-aur us ke abwab.</p>
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3	Third Term (13-18 months)	<p>1. Taqseem-e-Ism: Jamid, Masder wa Mushtaq, Ism-e-Fa'el, Ism-e- Mafool, Ism-e-Zarf, Ism-e-Alah, Ism-e- Tafzeel wa Ism-e- Mubalaghah, Ism-e-Tasgheer wa Sarfe Sagheer.</p> <p>(Division of Noun: Primitive, Infinitive and Derivative, Active Participle, Passive Participle, Noun of Place and Time, Noun of Tool, Comparative and Superlative Noun and Exaggerative Noun, Diminutive Noun, and Small Conjugation)</p> <p>2. Ierab, Tareef-o-Taqseem, Ierab bil Huroof, Ierab bil Harakat.</p> <p>(Inflection Sign, its definition and division: by letters and by signs).</p>	<p>1. Marfooat, Mansoobat, Majroorat. (Nominative Cases, Accusative Cases, Genitive Cases).</p> <p>2. Zamair Marfooah, Majroorah-o-Mansoobah, Asma-e- Isharah, Asma-e-Istifham, Asma-e- Mausoolah. (Pronouns in Nominative, Accusative and Genitive Cases, Demonstrative Pronouns, Interrogative Pronouns, Relative Pronouns).</p>	<p>1. Arabi Tibbi Istilahat-o-Alfaz ka Jumlon me Istemal. (Arabic Medical words and Terms and their uses in sentences).</p> <p>a) Asma-e-Aza-e-Insan wa Rutoobat-e-Badan. (Names of the Organs of Human Body and Body Fluids)</p> <p>b) Asma-e-Amraz (Names of the Diseases)</p> <p>c) Asma-e-Alaat (Names of the Instruments and Equipments)</p> <p>d) Asma-e-Advia (Names of Drugs)</p> <p>e) Tibbi Ash'aar (verses of Unani Tibb)</p>	<p>1. Taqseem-e-Ism:</p> <p>2. Zamair</p> <p>3. Arabi Tibbi Istilahat</p>
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Scheme of assessment (Formative and Summative)

Sl.No	PROFESSIONAL COURSE	Topics for Assessment			Term Test Topics (E)
		1 st PA Topics (A-1,2,3)	2 nd PA Topics (B-1,2,3)	3 rd PA Topics (C-1,2,3)	
1	First term (1-6 months)	<p>1. Tareef, Mauzu, aur Gharaz-o-Ghayat.</p> <p>(Definition, Aims and Objectives).</p> <p>2 Ilm aur Idrak, Aqsam-e- Ilm, Tasawwur-o- Tasdeeq aur unki Aqsam. (Knowledge and Perception, Kinds of Knowledge, Imagination and Judgement and their classification)..</p> <p>).</p>	<p>1. Mu'arrif ya Qawl-e- Shaareh, Daleel ya Hujjat. (Definer or Explanatory Statement, Evidence or Argument).</p> <p>2. Dalaalat ki Tareef-o- Taqseem, Lafz ki Tareef-o- Taqseem. (Denotation: its definition and classification, Word: its definition and classification).</p>	<p>1. Mafhoom-e- Juzi wa Kullimae Aqsam, Nisab-e- Arba'ah. (Conception, Specific/Particular and general and their kinds, Four Relations)</p> <p>2)Qazaya: Qaziyyah Hamliyyah ki jumla Aqsam, Qaziyyah Shartiyyah ki dow Qismen: Muttasilah-o- Munfasilah. (Propositions, Clause and its kinds, Conditional Clause and its two kinds viz. Attached and Detached Clause).</p>	<p>1. Tasawwur-o- Tasdeeq</p> <p>2. Dalaalat</p> <p>3. Qazaya</p>

2	Second Term (7-13 onths)	<p>1. Tanaquz, Wehdaat-e-Samaniyah, and Aks</p> <p>(Contradiction, its eight Unities, and Reversion)</p> <p>2. Hujjat ki Aqam, Qiyas, Istiqra, Tamseel, Qiyas ki Qismein.</p> <p>(Division of Arguments, Analogy, Induction, Allegory, and Kinds of Analogy).</p> <p>3. Hikmat, Tareef-o- Taqseem, Mauzu aur Gharaz-o- Ghayat. (Philosophy, its Definition and kinds, Aims and objectives).</p>	<p>1. Jism, Jism-e- Taba'i, Jism-e- Taleemi, Heula, Surat-e- Jismiyyah, Surat-e- Nauiyyah ki Tareef. (Body, Physical Body, Educational Body, Matter, Shape, Definition of Body Shape and Species Shape).</p> <p>2. Makan, Hayyiz aur Shakl ki Tareef. (Definition of Space, Locus and Shape).</p>	<p>1. Harakat wa Sukoon ki Tareef, Gharaz-o- Ghayat, Aqam-o- Sharaayit. (Motion and Rest, their Definitions, Aims and Objectives, Kinds and Conditions).</p> <p>2. Maqoolat-e- Ashar, Zamanah ki Tareef-o- Tauzeeh. (Ten Categories, Definition of Time and its explanation).</p>	<p>1. Tanaquz</p> <p>2. Jism</p> <p>3. Harkat o sukoon</p>
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3	Third Term (13-18 months)	<p>1. Anasir ki Tareef, Aqam, Kaifiyyaat-o-Mizaaj.</p> <p>(Definition of Elements, Kinds, Conditions and Temperament (With brief description).</p> <p>2. Kaun-o- Fasad, Murakkabat-e- Tammah, Jamadat, Nabatat. Wa Nafse Nabati, Nafse Haiwani, Nafse Natiqah aur unke matehat kaam karne wali Quwwatein, Murakkabat-e- Naqisa ki Tareef mae Amsal.</p> <p>3. Ilm-e- Hay'at ki Tareef, aur Tib se uska Ta'alluq. (Definition of Astronomy and its relation with Medicine).</p>	<p>1. Kurah, Qutbain, Khatte Sartaan, Khatte Jaddi, Khatte Istiwa, Mintaqatul Burooj. (Globe, Earth Poles, Tropic of Cancer, Tropic of Capricorn , Equator, Zodiac Line).</p> <p>2. Dairah Muaddilun Nahar, Dairah Nisf-un- Nah. (Meridian Circle, Mid-day Circle).</p>	<p>1 Ilm-un-Nafs ki Tareef-o- Aqam. (Psychology, its Definitions and Kinds)</p> <p>2 Ilm-un-Nafs aur Ilm-e- Tib ka Bahami Rabt. Ehsas, Idrak, Mushahidah, aur Tawajjuh ka ta'arruf. (Description of Interrelation between Psychology and Medicine. Introduction of Feelings, Perception, Observation and Attention).</p>	
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Calculation of Internal assessment

	PERIODICAL ASSESSMENT	TERM TEST	TERM ASSESSMENT
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TERM	A	B	C	D	E	F	G
	1 (20)	2 (20)	3 (20)	Average (A+B+C/3) 20	Term Test (MCQ+SAQ+LAQ) And Practical (Maximum 20)	Sub Total	Term Assessment
FIRST						D+E	D+E /2
SECON D						D+E	D+E /2
THIRD					NIL	D	D
Final IA	Average of Three Term Assessment Marks as Shown in 'G' Column						

ASSESSMENT BLUE PRINT FOR URDU ARABIC PAPER 1

S.NO	CHAPTERS	MARKS DISTRIBUTION						TOTAL MARKS
		MUST KNOW	DESIRABLE TO KNOW	NICE TO KNOW	MCQ	SAQ	LAQ	
1	Huroof-e-Tahajji, Huroof ki Mufrad aur Murakkab Shaklen, Huroof ki Ibtidai, darmiyani aur Akhri Shaklen, Hakari shaklen, Ham Saut Huroof, Musawwate aur musammate, Huroof ki Aqsaam-Rabt, Atf, Takhsees, Fujaiyyah, Waw Madoola, waw Atf, Khada Alif, Alif Maqsoora, Alif Mamdooda Alif	<ul style="list-style-type: none"> Identify Huroof-e-Tahajji by reading and writing them. Describe Hakari Huroof with correct pronunciation and write them correctly through dictation. Identify Mufrad and Murakkab Huroof, and describe the beginning, middle and last forms of Huroof through reading and writing. And define those Huroof whose beginning, middle and last forms are similar. Define Rabt, Atf, Takhsees, Fujaiyyah, waw Madoola, waw Atf, khada alif, alif Maqsoora, alif wasl, and describe their usages through writing and reading. 	<ul style="list-style-type: none"> Differentiate between the Musawwate (Vowel) and Musammate (Consonant) through reading and writing. Identify the Ham Sout Huroof, describe the Huroof that have similar sound, as well as those which despite having similar sound bear difference in pronunciation. Demonstrate the comprehension of Erab i.e. Zabar, Zer, Pesh, Ulta Pesh and Jazm by reading out texts. 		NO	NO	NO	0

	wasl. Erab, Tanween, Tashdeed, Mad, Harfe Jaza, Harfe Shart, Harfe Istisna.							
2	Lafz (Kalma)- Maddah – Ishtiqaq – Do Harfi Lfz, She Harfi Lafz, Chahaar Harfi Lfz- Ism aur Uski Qismen- Fe'l aur uski Halaten- Zameer aur uski Qismen- Sifat aur uski Qismen. Qawaid: Mufrad Lafz- Pecheeda Lafz- Murakkab Lafz- Taradufi Murakkab, Murakkabate Rabti, Murakkabate Tauseefi, Murakkabate Adadi- Tabe Muhmal, Izafat, Tasniya, Wahid/Jama, Tazkeer wa Tanees (Jins), Azdaad, Sabqe aur Laheqe.	<ul style="list-style-type: none"> • Define Mufrad Lafz, explain it by examples and demonstrate it through reading and dictation writing. • Define Pecheeda Lafz, explain it by examples and demonstrate it through reading and dictation writing. • Describe the main difference between Mufrad Lafz and Pecheeda Lafz. • Define Murakkab Lafz and explain its different forms through examples and explain the main difference between Mufrad, Pecheeda and Murakkab Alfaaz. • Identify Taradufi Murakkab, Murakkabat e Rabti, Murakkabat eTauseefi and Murakkabat e Adadi. • Define Tabe Muhmal and explain it by examples. • Define Izafat, explain Muzaf, Muzaf ilaih and Harfe Izafat, Izafat Harfi/Lafzi, Izafate Erabi and the ways of Izafat of Persian and Arabic languages. • Describe the ways of making 			YES	YES	NO	5

		<p>Wahid, Tasniya and Jama through examples.</p> <ul style="list-style-type: none"> Define Muzakkar and Muannas, explain the ways and rules of formulating Muzakkar and Muannas and mention their principles in Persian and Arabic languages, especially as per what is prevalent and used in Urdu. Define Zid, identify its kinds and explain the difference between Mutazaad Mukhalif, Mutazaad Jinsi and Mutazaad Mutaradifi by examples. 						
3	<p>Mustaqil Alfaaz ki qismen: Ism, Sifat, Zameer, Fe'l, Tameez, Ism ki Aqsaam: Ism Khas, Ism Aam, Ism Aam ki Aqsaam: Ism kifiyat, Ism Jama, Isme Zarf, Ism Aala, Sifat ki Aqsaam : Sifat Zati, Safat Nisbti, Sifat Adadi, Sifat Miqdaari, Sifat Zameeri, Zameer ki Aqsaam: Shakhsi, Mausoola, istifhamiya, Ishara, Tankeer.</p>	<ul style="list-style-type: none"> Define Ism, identify its kinds, difrentiate between Ism Aam and Ism Khaas, and explain Ism Kaifiyat, Ism Jama, Ism Zarf and Ism Aala by examples. Define Sifat, identify its kinds, and explain Sifat Zati, Sifat Nisbati, Sifat Adadi, Sifat Miqdari and Sifat Zameeri. Define Zameer, identify its kinds and explain Zameer Shakhsi, Zameer Mausoola, Zameer Istifhamiya, Zameer Ishara and Zameer Tankeeri. 	<ul style="list-style-type: none"> Identify Mustaqil Alfaaz, explain their kinds i.e. Ism, Sifat, Zameer, Feal and Tameez. 		YES	YES	NO	5

4	<p>Fe'l ke Zamane: Mazi, Hal, Mustaqbil, Fe'l ki Halaten Mana ke Etebar se:lazim, Muta'addi, Naqis, Fe'l ki Surten: Khabari, Sharti, Ehtemali, Amri and Masdari, Fe'l ke Seghe: Ghaib, Hazir, Mutakallim, Afaal Mazi ki Aqsaam: Mazi Mutlaq, Mazi Natamaam, Mazi Tamaam, Mazi Shartiya, Mazi Tamannai, Mazi Ehtemali, Afaal Hal ki Aqsaam: Muzare, Amr, Hal Mutlaq, Hal Natamaam, Hal Ehtemali, Afaal Mustaqbil ki Aqsaam: Mustaqbil Mutlaq, Mustaqbil Madaami.Ghair Mustaqil Alfaaz</p>	<ul style="list-style-type: none"> Define Feal, describe its tenses i.e. Mazi, Hal, Mustaqbil, identify its conditions in terms of meaning i.e. Lazim, Mutaaddi and Naqqis, explain its forms i.e. Khabari, Sharti, Ehtemali, Amri and Masdari, and describe its Seeghe I.e. Ghaib, Hazir and Mutakallim Explain in detail the kinds of Afaal Mazi i.e. Mazi Mutlaq, Mazi Natamaam, Mazi Tamaam, Mazi Sharti, Mazi Tamannai, Mazi Ehtemali. Give the detailed explanation of Afaal Hal's kinds i.e. Muzare, Amr, Hal Mutlaq, Hal Natamaam, Hal Ehtemali. Explain the kinds of Afaal Mustaqbili.e. Mustaqbil Mutlaq, Mustaqbil Mudaami. Demonstrate proficiency in application of all the grammatical rules of Murakkab Tauseefi. 	<ul style="list-style-type: none"> Define Murakkab Naqis and its kinds. Analyze Murakkab Ishari by explaining Musharun ilaih being used with Al and without Al. Define Ghair Mustaqil Alfaaz, describe their kinds, explain Rabt, Atf, Takhsees, Fujaiyah by examples. 		YES	YES	NO	5
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	ki Qismen: Rabt, Atf, Takhsees, Fujaiyah.							
5	Jumla: Mufrad Jumla- Mubtada, Khabar, Fe'le Rabt.Murakka b Jumla: Ham Rutba Jumla, Tabe Jumla, Istidraki Jumla, Tardeedi Jumla,Alaamaa t: Auqaaf ya Waqfa, Sakta, Waqfa, Rabta, Tafseela, Khatma, Sawalia, Fujaiya, ya Nidaiya, Qousain, Khat, Wawain, Zanjeerah.	<ul style="list-style-type: none"> Define Mufrad and Jumla and explain the difference between them. Explain the Khabar as well as Feal, Fail, mafuool and muta'alliq e Feal Explain Murakkab Jumla, Ham Rutba Jumla, Tabe Jumla, Istidraki Jumla, Tardeedi Jumla. Illustrate Saada and Khabaria Jumle by writing examples. Define Alaamaat, explain different forms of Alaamaat i.e. Auqaaf or Waqfa- Sakta, Waqfa, Raabta, Tafseela, Khatma, Sawalia, Fujaiya, Nidaiya, and identify different ways of their usages. Illustrate also Alaamaat like Qousain, Khat, Wawain, Zanjeerah, and the ways of their usages by writing examples. 	<ul style="list-style-type: none"> Define Jumla, identify its components and their proper order i.e. Mubtada, Khabar and Feal e Rabt. 		YES	YES	YES	10
6	Nazm-o-Nasr ke Chand Muntakhab Abwab:(Ghazal : Meer- Ulti Ho Gain Sab Tadbeeren, Ghalib- Dile Nadan Tujhe	<ul style="list-style-type: none"> Identify the sentences and analyse their structures. Recognize different kinds of Urdu texts. Define the verse and prose and explain the distinguishing differences between them. 			YES	YES	YES	10

	<p>Huwa kiya Hai, Tarana Hindi- Allama Iqbal, Nazm: Raat- Ismail Merathi,Aawar ah- Majaz, Khat Mir Mehdi ke Naam-Ghalib, Nazime Jahan Hakeem Azam Khan, Hakeem Ajmal Khan, Warzish ke Tareeqe aur Hidayaat, Tibbi Ash'aar, Marsiya Hakeem Mahmood Khan- Altaf Husain Haali, Tib ka Tareekhi Khaaka- Kamaluddin Hamdani, Rusoom wo Aadaat- Sir Syed, Eidgaah- Prem Chand, Qissa Hatim Tai- Meer Amman)</p>	<ul style="list-style-type: none"> • Demonstrate good understanding of the language through reading and writing. • Demonstrate the capability of using literary words of the language. 						
7	<p>Huroof-e-Hijaa, Huroofe Shamsiyyah wa Qamariyyah, Asma-e-</p>	<ul style="list-style-type: none"> • Identify, read and write Huroof-e-Hijaa, join the Huroof with correct Harakat, and distinguish between Huroof-e Shamsiyyah and Qamariyyah. 	<ul style="list-style-type: none"> • Enumerate the numbers up to the hundred. 		NO	NO	NO	0

	Harakat wa Adaad	<ul style="list-style-type: none"> Describe Arabic numerals; differentiate between the cardinal and ordinal numbers. 						
8	Kalimah aur uski Aqsaam, Ism, Fe'l, Harf.	<ul style="list-style-type: none"> Define and distinguish each kind of Kalimah. 	<ul style="list-style-type: none"> Identify Kalimah as a single meaningful unit of the sentence. Identify and enumerate the signs of noun, verb and particle. Demonstrate the comprehension of the signs of each kind of Kalima by examples 		YES	YES	NO	10
9	Ism ki Taqseem balehaz-e-Tareef-o-Tankeer, balehaz-e-Jins, balehaz-e-Adad	<ul style="list-style-type: none"> Explain the difference between Marifa and Nakira. Define and distinguish masculine and feminine words. Enumerate the signs of the word's femininity. Identify the singular and plural nouns. Classify and distinguish the types of plural nouns. Identify Jama Muzakkar Salim and Jama Muannas Salim. 		<ul style="list-style-type: none"> Identify the bases of the noun classification. 	YES	YES	YES	
10	Murakkab aur uski Aqsaam.	<ul style="list-style-type: none"> Classify the compound into complete (Taam) and incomplete (Naqis). 	<ul style="list-style-type: none"> Identify Compound word (Murakkab). 		YES	NO	NO	
11	Murakkab-e-Naqis, Murakkab-e-Izafi, Murakkab-e-Tauseefi,	<ul style="list-style-type: none"> Analyse Murakkab Izafi distinguishing Muzaf and Muzaf ilaih. Enumerate the grammatical rules of both. Produce examples of Murakkab 	<ul style="list-style-type: none"> Define Murakkab Naqis and its kinds. Analyze Murakkab Ishari by explaining Musharun ilaih being used with Al and without Al. 		YES	YES	YES	

	Murakkab-e-Ishari.	<p>Izafi.</p> <ul style="list-style-type: none"> Analyse Murakkab Tauseefi distinguishing Mausooof and Sifat. Demonstrate proficiency in application of all the grammatical rules of Murakkab Tauseefi. 	<ul style="list-style-type: none"> Demonstrate proficiency in creating plenty of examples of each kind of Murakkab Naqis. 					
12	Murakkab-e-Taam ya Kalam, Jumlah Ismiyyah, Jumlah Fe'liyyah.	<ul style="list-style-type: none"> Demonstrate the comprehension of all the grammatical rules pertaining to Muftada and Khabar. Compare between Jumla Ismiya and Murakkab Tauseefi. 	<ul style="list-style-type: none"> Categorize Murakkab Taam complete sentence into Jumla Ismiya and jumla Faeliyya. 		YES	YES	YES	
13	Fe'l aur uski Aqam ba etebar-e-Zamana: Mazi, Hal, Mustaqbil.	<ul style="list-style-type: none"> Define the verb and identify its kinds in terms of past, present and future. 		<ul style="list-style-type: none"> Identify the structural signs of each tense of verb. 	YES	YES	NO	
14	Gardan-e- Mazi aur uske Seeghe.	<ul style="list-style-type: none"> Describe Gardan-e-Mazi, and identify all its Seeghe. Distinguish each Seegha from the other. 	<ul style="list-style-type: none"> Apply the Gardan-e-Mazi on several different verbs. 	<ul style="list-style-type: none"> Use the Seeghe in group conversation. 	YES	YES	YES	15
15	Gardan-e- Muzare aur uske Seeghe.	<ul style="list-style-type: none"> Describe Gardan-e-Muzare, identify all its Seeghe Distinguish each Seegha from the other. 	<ul style="list-style-type: none"> Apply the Gardan-e-Muzare on several different verbs. 	<ul style="list-style-type: none"> Use the Seeghe in group conversation. 	YES	YES	YES	
16	Fe'l-e-Sulasi Mujarrad aur uske Abwab	<ul style="list-style-type: none"> Enumerate and compare all the Abwab-e-Sulasi Mujarrad. 	<ul style="list-style-type: none"> Identify several different verbs under these Abwab. 		YES	YES	NO	
17	Fe'l-e-Sulasi Mazeed aur uske Abwab.	<ul style="list-style-type: none"> Identify and distinguish all Abwab-e-Sulasi Mazeed be Harf and their Seeghe Identify and distinguish all Abwab-e-Sulasi Mazeed be Harfain and 			YES	YES	YES	

		<p>their Seeghe</p> <ul style="list-style-type: none"> Identify Bab-e-Istif' aal only as Bab-e-Sulasi Mazeed be-Salasati Huroof. Identify and describe several different verbs under these Abwab. 						
18	Fe'l-e- Rubae Mujarrad wa Mazeed	<ul style="list-style-type: none"> Describe Fe'l-e-Rubai Mujarrad 		<ul style="list-style-type: none"> Describe Fe'l-e-Rubai Mazeed 	YES	NO	NO	
19	Taqseem-e-Fe'l-e-Mazi-o-Muzare ba etebar-e-Marroof-o-Majhool.	<ul style="list-style-type: none"> Define Marroof and Majhool and distinguish between them with their signs. 	<ul style="list-style-type: none"> Frame sentences using both Mazi and Muzare Marroof and Majhool 		YES	YES	NO	
20	Gardan-e-Fe'l-e-Amr-o-Nahi.	<ul style="list-style-type: none"> Define Fe'l-e-Amr, and explain the steps to formulate it. Read out and write Gardan-e-Amr and use them in sentences. Define Fe'l-e-Nahi, and explain the way of its formulation. Read out and write Gardane-e-Nahi and use them in sentences. 			YES	YES	YES	
21	Taqseem-e-Ism: Jamid, Masder wa Mushtaq, Ism-e-Fa'el, Ism-e- Mafool, Ism-e-Zarf, Ism-e-Alah, Ism-e Tafzeel wa Ism-e-Mubalaghah,	<ul style="list-style-type: none"> Identify Ism-e-Jamid, Masder and Mushtaq. Enumerate Asma-e-Mushtaqqah. Explain the procedures of formulating Ism-e-Faael, Ism-e-Mafool and the other Nominal Derivatives from Maddah/Masder. 			YES	YES	YES	15

	Ism-e-Tasgheer, Sarfe Sagheer.	<ul style="list-style-type: none"> • Demonstrate proficiency in formulating Isme-e-Faael and Ism-e-Mafool from all the Abwaab-e-Sulasi Mujarrad, Sulasi Mazeed and Rubai. 						
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22	Ierab, Tareef-o-Taqseem, Ierab bil Huroof, Ierab bil Harakat.	<ul style="list-style-type: none"> Identify the significance of Ierab in determination of the meanings Locate the Ierab bil Huroof describing the particular Ierab of Tasniyah, Jama Muzakkar Salim and Asma-e-Sittah 	<ul style="list-style-type: none"> Define Ierab bil Harakat 		YES	YES	NO	5
23	Marfoot, Mansoobat, Majroorat.	<ul style="list-style-type: none"> Define and enumerate All Marfoot, Mansoobat and Majroorat. 			YES	YES	NO	
24	Zamair Marfooh, Majroorah-o-Mansoobah, Asma-e-Isharah, Asma-e-Istifham, Asma-e-Mausoolah.		<ul style="list-style-type: none"> Define Zamaair, enumerate their Seeghe, distinguish between Munfasilah and Muttasilah, and use them in sentences. Define Asma-e-Isharah, describe their Seeghe, and use them in sentences. 	<ul style="list-style-type: none"> Define Asma-e-Mausoolah, mention their Seeghe and use them in sentences. 	YES	YES	NO	
25	Arabi Tibbi Istilahat-o-Alfaz ka Jumlon me Istemal.	<ul style="list-style-type: none"> Identify the Arabic names of human body organs with correct spelling and pronunciation. Identify the Arabic names of diseases with correct spelling and pronunciation. Identify the Arabic names of medical instruments and equipments with their correct spelling and pronunciation. Identify the Arabic names of Unani drugs with their correct 	<ul style="list-style-type: none"> Construct Arabic sentences using the body parts' names. Construct sentences using the Arabic names of diseases. Make sentences in Arabic using the medical equipments' names . Frame sentence in Arabic using the Unani drugs' names 		YES	YES	YES	10

		spelling and pronunciation. <ul style="list-style-type: none">• Understand and recite Arabic Tibbi verses.						
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S.NO	TOPIC	CHECK LIST
1	PRACTICAL / CLINICAL PERFORMANCE	➤ Not applicable
2	OPEN BOOK TEST	➤ Conducting open book test weekly
3	SUMMERY WRITING	➤ Summery of Must known topics as per curriculum

4	WORKBOOK MAINTENANCE	<ul style="list-style-type: none"> ➤ Maintaining and writing all curriculum related lesson's with exercises.
5	SMALL PROJECTS	<ul style="list-style-type: none"> ➤ Preparing charts ➤ Power point presentation
6	EXTRA CURRICULAR ACTIVITES	<ul style="list-style-type: none"> ➤ ➤ Spoken Urdu/ Arabic languages using various websites and software. ➤ Listening and watching Arabic rhymes and stories. ➤ Improving translation skills via various websites and software

CHECK LIST FOR PERIODIC ASSESSMENT

URDU AND ARABIC PAPER 1

QUESTION PAPER BLUE PRINT

Sl.No	Type of Question	Question Paper Format
Q1	<p>Multiple choice Questions (MCQ)</p> <p>20 Questions</p> <p>1 mark each</p> <p>All compulsory</p> <p>Must know 15 MCQ Desirable to know 3 MCQ Nice to know 2 MCQ</p>	<ol style="list-style-type: none"> 1. Topic number 2 2. Topic number 2 3. Topic number 3 4. Topic number 3 5. Topic number 4 6. Topic number 4 7. Topic number 5 8. Topic number 5 9. Topic number 6 10. Topic number 6 11. Topic number 8 12. Topic number 9 13. Topic number 10 /11 14. Topic number 12/13 15. Topic number 14/15/16/17 16. Topic number 18/19/20 17. Topic number 21. 18. Topic number 22/23/24 19. Topic number 25 20. Topic number 25
Q2	<p>Short answer Questions (SAQ)</p> <p>Eight Questions</p> <p>5 Marks Each</p> <p>All compulsory</p> <p>Must know 7 SAQ Desirable to know 1 SAQ No Questions on Nice to know</p>	<ol style="list-style-type: none"> 1. Topic number 2/5 2. Topic number 3/6 3. Topic number 4 4. Topic number 8/9 5. Topic number 11/12/13 6. Topic number 14/15/16/17/19/20 7. Topic number 21/25. 8. Topic number 22/23/24
Q3	<p>Long answer Questions (LAQ)</p> <p>Four Questions</p> <p>10 marks each</p> <p>All compulsory</p> <p>All questions on must know No Questions on Nice to know and Desirable to know</p>	<ol style="list-style-type: none"> 1. Topic number 5/6 2. Topic number 9/25 3. Topic number 11/12/21 4. Topic number 14/15/17/20

URDU AND ARABIC PAPER 1

MODEL QUESTION PAPER
URDU AND ARABIC PAPER 1

MCQ

1X20=20 Marks

1) Recognize Muzaf and Muzaf ilahi from given.

- a) Rashid ka Ghar b) Naya Qalam c) Purani Kitab d) Teen Kitaben

1- درج ذیل نثالوں میں سے مضاف اور مضاف الہی کی پہچان کیجئے۔

الف) رشتہ نگاہر ب) نیا قلم ج) پرانی کتاب د) تین کتابوں

2) Identify Muannas word from given words.

- a) Kitab b) Qalam c) Chidya d) Kabutar

2- درج ذیل نثالوں میں سے مونث کی پہچان کیجئے۔

الف) کتاب ب) قلم ج) چڑیا د) کبوتر

3) Proper Noun.

- a) Isme Khas b) Isme Aam c) Isme Jama d) Murakkab

3- کسی نلم سے خاص شخاص، خاص چیز، خاص جگہ مطلقاً نلم سے کہتے ہیں۔

الف) نلم خاص ب) نلم عام ج) نلم جمع د) مرکب

4) A word that is used instead of a noun called

- a) Ism b) Sifat c) Zamir d) Mufrad

4- ایسا نلم جو کسی نلم کی جگہ استعمال کیا جائے نلم سے کہتے ہیں۔

الف) اسم ب) صفت ج) ضمیر د) مفرد

5) A group of word that not conveys a complete idea.

- a) Muftada b) Murakkabe naqis c) Pecheeda lafz d) Khabar

5- لفظ کا ایسا مجموعہ جس سے سرزنسے والے کو پوری بات سمجھ نہیں آئے نلم سے کہتے ہیں؟

الف) مبتدا ب) مرکب ناقص ج) پیچی لفظ د) خبر

6) Past tence.

- a) Haal b) Mustaqbil c) Mazi d) None of them

6 گزرا ہوا زمینہ

الف) حال ب) مستقبل ج) ماضی د) ان میں سے کوئی بھی نہیں۔

7) A group of word that conveys a complete idea.

- a) Jumla b) Faail c) Ism d) Khabar

7۔ کئی جملے ایسے ہیں جو مکمل بات سمجھائیے۔ ان میں سے کوئی بھی نہیں۔

الف) جملہ ب) فاعل ج) ضم د) خبر

8) Symbol indicate the question

- a) ! b) ? c) + d) /

8 سوال کو ظاہر کرنے والی علامت ہے۔

الف) ! ب) ؟ ج) + د) /

9) Who is the poet of Ghazal “Ulti ho gai sab tadbiren”?

- a) Allama Iqbal b) Galib c) Mir Taqi Mir d) Mir Momin

9۔ غزل لکھی ہوئی ہے جس کی شاعر۔

الف) علامت قبال ب) غالب ج) میر تقی میر د) میر مومن

10) Who is the writer of prose “Tib ka tarikhi khaka”?

- a) Kamaluddin Hamdani b) Prem chand c) Ajmal Khan d) Sir Syed Khan

10۔ نثر ، طبع و اتواہی خلی لکھی ہے من ف۔

الف) کمال الدین حمدانی ب) پریم چند ج) اجمل خان د) سر سید احمد خان

11) Noun, Verb and Particle are kinds of

- a) Jumla b) Kalima c) Zamir d) Isme Ishara

11۔ اسم ، فعل اور حرف کے اسامی ہیں۔

الف) جملہ ب) کلمہ ج) ضمیر د) اسم اشارہ

12) There are..... Signs of Tanees.

- a) 3 b) 5 c) 2 d) 6

12. احوال متعلقى تىث ----- ىى.

- الف) تىن ب) پىل چ ج) دو د) چھ

13) Lounz Zahri

- a) Kalima b) Murakkab c) Muftada, Khabar d) Faail

13 لون لزهري

- الف) كللمه ب) مركب ج) بتدا خبر دفاعل

14) Which sega is Zahabna ?

- a) Mazi b) Muzare c) Amar d) Nahi

14. ذهبن كون س اصلى غه هه.

- لف) فعل مضى ب) فعل مضارع ج) فعل امر د) فعل نهى

15) How many Abwab of Sulasi Mujarrad?

- a) 3 b) 5 c) 6 d) 8

15. ثالئى مچرنك بكتق بلبواب ىى؟

- الف) 3 ب) 5 ج) 6 د) 8

16) In which the order is given called

- a) Fael Nahi b) Fael Manfi c) Fael Amar d) Fael Muzare

16. جس ىهكسى كاكمرن بكا بكم ىا بچا هه بلل هه ----- كفت هه ىى.

- لف) فعل نهى ب) فعل نهى ج) فعل امر د) فعل مضارع

17) What kind of example is Rajulun?

- a) Masdar b) Mushtaq c) Jamid d) Fael

17. رچل كسكى مثال هه؟

- الف) صدر ب) مشتق ج) جامد د) فعل

18) The examples of Isme Mousool is.....

- a) Ana b) Allazi c) Min d) Ila

18. بللم موصولكى مثال ----- هه.

د) لى

ج) من

ب) لذى

الف) نا

19) Identify part of body name.

a) Qalbun

b) Kalbun

c) Sameenun

d) Lailun

19- درج فى اللفاظ هيں سے اعزى اے جس ملى كے ن اكيشن اختكى هجى اے۔

د) لىل

ج) س هين

ب) كلىب

لف) قلب

20) Identify disease name

a) Barsun

b) Lahmun

c) Sinnun

d) Kabidun

20- درج فى اللفاظ هيں سے امرطى كے ن كلى ش ن اختكى هجى اے۔

د) كبد

ج) سن

الف) برص ب) لحم

MAQ

5X8=40 Marks

21) Define Mufrad and Jumla and explain the difference between them.

21م فرد اور جلمى كى تعريفى فسى ان كرتے هئے دن ورهى فرقى ولىں كرىں۔

22) Define Zameer, identify its kinds.

22- ضمير كى تعريفى فكتے هئے اس كى مقاس كلى ن شل نهى كى هجى اے۔

23) Define Feal, describe its tenses.

23- فعل كى تعريفى فكتے هئے اس كى زلمن ورپر روشنى ائهى اے۔

24) Define and distinguish each kind of Kalimah with examples.

24- كلىمہ اور اس كى مقاس اكي ولىں اح تكى هجى اے نخل وركے سىئھ۔

25) Define Murakkab Naqis and its kinds with examples.

25- مر كىب ناقص كى تعريفى فكتے هئے اس كى مقاس ام نخل وركے سىئھ لك هئے اے۔

26) Enumerate Abwab-e-Sulasi Mujarrad.

26- ابواب سلاسى مجرى كى ولىں اح تكى هجى اے۔

27) Define Ism-e-Jamid, Masder and Mushtaq with examples.

27- جس در شہتق اور جام کی تعریفات مع مثال لکھیے۔

28) Define and enumerate Marfoot, Mansoobat and Majroorat.

28 مرفوعات، مضوبات اور مجرورات کی تعریف کرتے ہوئے بتائیے کہ وہ کیسی لگی ہیں۔

LAQ

10X4=40 Marks

29) Explain summery of Taranaye Hindi in detail.

29 تارلہ ہند کے خلاصہ کی وضاحت کیجئے۔

30) Write any 10 parts of body names with meaning.

30 کوئی دس اجزائے جس لمنی کے نام مع معنی تحریر کیجئے۔

31) Enumerate Asma-e-Mushtaqah.

31- اس کے متعلق کلمات لے لیں اور وہ کیسی لگی ہیں؟ وضاحت کیجئے۔

32) Describe Gardan-e-Mazi, and identify all its Seeghe.

32 گردان لمضی کی وضاحت کرتے ہوئے اس کے ہر صیغہ کی شناخت کیجئے۔

MANTIQ WA FALSAFA PAPER 2

Sl No	Topic	Hrs	Learning content distribution			Weightage
			Must Know	Desirable to know	Nice to know	
(Mantiq)						
Topic 1: Tareef, Mauzu, aur Gharaz-o-Ghayat.						
1	Explain the literal and terminological definition of Mantiq with the mention of its aims and objectives.	1 hrs	MK	--	--	10
Topic 2: Ilm aur Idrak, Aqşam-e-Ilm, Tasawwur-o-Tasdeeq aur unki Aqşam.						
2	Define Ilm and Idrak.	1 hrs	MK	--	--	10
3	Explain Ilm's classification into Tasawwur and Tasdeeq and their subdivision into Badeehi and Nazari.		MK	--	--	
Topic 3: Mu'arrif ya Qawl-e-Shaareh, Daleel ya Hujjat.						
4	Define Muarrif, Qawl-e Shareh and Tareef as synonyms, and similarly Hujjat and Daleel.	1 hrs	MK	--	--	15
Topic 4: Dalaalat ki Tareef-o-Taqseem, Lafz ki Tareef-o-Taqseem.						
5	Define Dalalat, Daal, Madlool, and identify Dalalat's division into Lafzi and Ghair Lafzi and all their subdivisions.	1 hrs	MK	--	--	15
6	Explain the kinds of Dalalat-e-Lafzi Wad'ee	30 min	MK	--	--	
7	Identify Lafz-e-Mufrad and Murakkab and their classifications and subclassifications.	30 min	--	DK	--	
Topic 5: Mafhoom-e- Juz'ee wa Kulli mae Aqşam, Nisab-e- Arba'ah. Muarrif aur uske aqşam.						
8	Define Mafhoom and its division into Kulli and Juz'ee.	30 min	MK	--	--	15
9	Enumerate Kulliyat-e-Khamsah, illustrating each of them with examples.	30 min	MK	--	--	
10	Enumerate Nisabat-e-Arba'ah defining each Nisbat and comparing it with the other	30 min	MK	--	--	
11	Define the kinds of Muarrif comparing them with each other.	30 min	MK	--	--	
Topic 6: Qazaya: Qaziyyah Hamliyyah ki jumla Aqşam, Qaziyyah Shartiyyah ki dow Qismen: Muttasilah-o-Munfasilah.						
12	Define Qaziyyah differentiating it from Insha and describing the components of Qaziyyah Hamliyyah.	30 min	MK	--	--	5
13	Identify all the classifications of Qaziyyah Hamliyyah	30 min	--	DK	--	
14	Define Qaziyyah Shartiyyah	30	--	DK	--	

	Muttasilah and Munfasilah.	min				
15	Define all the subclassifications of Qaziyyah Shartiyah Muttasilah and Munfasilah.	30 min	--	--	NK	
Topic 7: Tanaquz, Wehdat-e-Samanyah, and Aks						
16	Define Tanaquz and enumerate its Wehdat-e-Samanyah.	1 hrs	MK	--	--	10
17	Apply Wehdat-e- Samanyah and Illustrate Tanaquz by analyzing seemingly contradictory statements.		--	DK	--	
18	Define Aks and identify its classification into Aks Mustawi and Aks-e-Naqeez.		--	--	NK	
Topic 8: Hujjat ki Aqşam, Qiyas, Istiqra, Tamseel, Qiyas ki Qismein.						
19	Define Hujjat and identify its classification.	1 hrs	MK	--	--	10
20	Define Qiyas and its formulation and illustrate the way to reach the conclusion through Qiyas.	1 hrs	MK	--	--	
21	Identify the 5 kinds of Qiyas on the basis of Maaddah and the 6 Yaqeeniyaat .	30 min	--	DK	--	
22	Identify all the categories and subcategories of Qiyas	30 min	--	--	NK	
23	Define Istiqra and Tamseel.	30 min	MK	--	--	
24	Demonstrate the application of Qiyas in diagnosing diseases, and Istiqra in clinical research of medicine.	30 min	--	--	NK	
(Falsafa)						
Topic 9: Hikmat, Tareef-o-Taqseem, Mauzu aur Gharaz-o-Ghayat.						
25	Define Falsafa literally and terminologically.	1 hrs	MK			20
26	Explain classification of Hikmat into Amali and Nazari and their sub-classifications.		--	DK	--	
27	Describe the aims and objectives of Falsafa.		--	--	NK	
Topic 10: Jism, Jism-e-Taba'I, Jism-e-Taleemi, Heula, Surat-e-Jismiyyah, Surat-e-Nauyyah ki Tareef.						
28	Define Jism and all its types.	1 hrs	MK	--	--	10
Topic 11: Makan, Hayyiz aur Shakl ki Tareef.						
29	State the philosophical definitions of Makan, Hayyiz and Shakl.	1 hrs	MK	--	--	10
Topic 12: Harakat wa Sukoon ki Tareef, Gharaz-o- Ghayat, Aqşam-o- Sharaayit.						
30	Define Harakat and Sukoon in terms of philosophy.	1 hrs	MK	--	--	10
31	Describe 6 conditions for Harakah to take place.		MK	--	--	
32	Identify the division of Harakat on the basis of Mutaharrik and in view of Muharrik.		MK	--	--	
Topic 13: Maqoolat-e-Ashar, Zamanah ki Tareef-o-Tauzeeh.						
33	Identify and enumerate Maqoolat-e-Ashar.	1 hrs	MK	--	--	10

34	Explain Zamanah in terms of the Unani philosophy.		--	--	NK	
Topic 14: Anasir ki Tareef, Aqsam, Kaifiyyaat-o-Mizaaj (Ijmali Bayan).						
35	Define Anasir and enumerate them in view of the different Unani philosophers.	1 hrs	MK	--	--	10
36	Evaluate the four-ness of Anasir in the Unani medicine.		MK	--	--	
37	Describe the Kaifiyyat-e-Arba'ah.		--	DK	--	
38	Give the brief introduction of Mizaj.		--	DK	--	
Topic 15: Kaun-o-Fasad, Murakkabat-e-Naqisa ki Tareef mae Amsal, Murakkabat-e-Tammah, Jamadat, Nabatat. Wa Nafse Nabati, Nafse Haiwani, Nafse Natiqah aur unke matchat kaam karne wali Quwwatein.						
39	Define Kaun-o-Fasad and enumerate 6 forms of Inqilab-e-Anasir	30 min	--	DK	--	10
40	Describe difference of opinions between the Unani philosophers regarding Inqilab-e-Anasir.	30 min	--	DK	--	
41	Evaluate the correct opinion on the basis of argumentation.	30 min	--	DK	--	
42	Define Murakkab-e-Unsuri, and distinguish between Tam and Naqis describing the characteristics of both.	30 min	MK	--	--	
43	Identify Murakkabat-e-Naqisah of Dukhan and Bukhar and enumerate their instances inside the earth and those in the space.	30 min	--	DK	--	
44	Define Murakkabat-e-Tammah specifying their characteristics.	30 min	MK	--	--	
45	Define Jamadat and identify Nabatat and all the faculties (Quwa) responsible for their growth and how they function.	30 min	MK	--	--	
46	Define Haiwanat and identify the faculties responsible for their perception and motion (Quwa Mudrikah and Muharrikah).	30 min	MK	--	--	
47	Define Insan and Nafs-e-Natiqah, and identify the different philosophical opinions regarding its reality.	30 min	MK	--	--	
48	Identify Quwwat-e-Aqilah and Quwwat-e-Amilah and the hierarchical grades of Quwwat-e-Aqilah.	30 min	--	--	NK	
(Hay'at)						
Topic 16: Ilm-e-Hay'at ki Tareef, aur Tibb se uska Ta'alluq.						
49	Define Ilm-e-Hay'at and describe its connection with Ilm-e-Tibb.	1 hrs	MK	--	--	10
Topic 17: Kurah, Qutbain, Khatte Sartan, Khatte Jaddi, Khatte Istiwa, Mintaqatul Burooj.						
50	Define the astronomical terms like Kurah, Qutbain, Khatte Sartan, Khatte Jaddi, Khatte Istiwa, Mintaqatul Burooj.	1 hrs	MK	--	--	10
Topic 18: Dairah Muaddilun Nahar, Dairah Nisf-un- Nahar.						

51	Define the astronomical terms like Dairah Muaddilun Nahar, Dairah Nisf-un- Nahar	1 hrs	MK	--	--	10
(Ibtedai Ilm-un-Nafs)						
Topic 19: Ilm-un-Nafs ki Tareef-o-Aqsam.						
52	Define Ilm-un-Nafs and describe the evolutionary changes in its definition.	1 hrs	MK	--	--	5
53	Enumerate some of the most famous branches of Psychology.		--	DK	--	
Topic 20: Ilm-un-Nafs aur Ilm-e-Tibb ka Bahami Rabt. Ehsas, Idrak, Mushahidah, aur Tawajjuh ka Ta'arruf.						
54	Explain the mutual connection between Ilm-un-Nafs and Tibb.	1 hrs	MK	--	--	5
55	Define some important psychological terms like Ehsas, Idrak, Mushahida and Tawajjuh.		--	DK	--	

For Teaching Program
List non lecture Teaching-Learning methods
Mantiq wa Falsafa Paper 2

Sl. No	Topics	Non lecture Teaching-Learning methods
1	Explain the literal and terminological definition of Mantiq with the mention of its aims and objectives.	Tutorial
2	Explain Ilm's classification into Tasawwur and Tasdeeq and their subdivision into Badeehi and Nazari.	Group Discussion
3	Define Muarrif, Qawl-e Shareh and Tareef as synonyms, and similarly Hujjat and Daleel.	Group Discussion
4	Explain the kinds of Dalalat-e-Lafzi Wad'ee	Tutorial
5	Identify Lafz-e-Mufrad and Murakkab and their classifications and subclassifications.	Group Discussion
6	Enumerate Kulliyat-e-Khamsah, illustrating each of them with examples.	Problem Solving method
7	Enumerate Nisab-e-Arba'ah defining each Nisbat and comparing it with the other	Problem Solving method
8	Define the kinds of Muarrif comparing them with each other.	Tutorial
9	Identify all the classifications of Qaziyyah Hamliyyah	Group Discussion
10	Define Qaziyyah Shartiyyah Muttasilah and Munfasilah.	Problem Solving method
11	Define all the subclassifications of Qaziyyah Shartiyyah Muttasilah and Munfasilah.	Problem Solving method
12	Apply Wehdah-e- Samaniyah and Illustrate Tanaquz by analyzing seemingly contradictory statements.	Problem Solving method
13	Define Aks and identify its classification into Aks Mustawi and Aks-e-Naqeez.	Tutorial
14	Define Qiyas and its formulation and illustrate the way to reach the conclusion through Qiyas.	Problem Solving method
15	Identify the 5 kinds of Qiyas on the basis of Maaddah and the 6 Yaqeeniyaat .	Group Discussion
16	Identify all the categories and subcategories of Qiyas	Group Discussion
17	Define Istiqra and Tamseel.	Tutorial
18	Demonstrate the application of Qiyas in diagnosing diseases, and Istiqra in clinical research of medicine.	Problem Solving method
19	Explain classification of Hikmat into Amali and Nazari and their sub-classifications.	Group Discussion
20	Describe the aims and objectives of Falsafa.	Tutorial
21	Define Jism and all its types.	Tutorial
22	State the philosophical definitions of Makan, Hayyiz and Shakl.	Tutorial
23	Describe 6 conditions for Harakah to take place.	Tutorial
24	Identify the division of Harakat on the basis of Mutaharrik and	Group Discussion

	in view of Muharrik.	
25	Identify and enumerate Maqoolat-e-Ashar.	Group Discussion
26	Explain Zamanah in terms of the Unani philosophy.	Tutorial
27	Define Anasir and enumerate them in view of the different Unani philosophers.	Group Discussion
28	Evaluate the four-ness of Anasir in the Unani medicine.	Tutorial
29	Describe the Kaifiyyat-e-Arba'ah.	Tutorial
30	Give the brief introduction of Mizaj.	Tutorial
31	Describe difference of opinions between the Unani philosophers regarding Inqilab-e-Anasir.	Tutorial
32	Evaluate the correct opinion on the basis of argumentation.	Group Discussion
33	Define Murakkab-e-Unsuri, and distinguish between Tam and Naqis describing the characteristics of both.	Tutorial
34	Identify Murakkabat-e-Naqisah of Dukhan and Bukhar and enumerate their instances inside the earth and those in the space.	Group Discussion
35	Define Jamadat and identify Nabatat and all the faculties (Quwa) responsible for their growth and how they function.	Tutorial
36	Define Haiwanat and identify the faculties responsible for their perception and motion (Quwa Mudrikah and Muharrikah).	Group Discussion
37	Define Insan and Nafs-e-Natiqah, and identify the different philosophical opinions regarding its reality.	Tutorial
38	Identify Quwwat-e-Aqilah and Quwwat-e-Amilah and the hierarchical grades of Quwwat-e-Aqilah.	Tutorial
39	Define Ilm-e-Hay'at and describe its connection with Ilm-e-Tibb.	Tutorial
40	Define the astronomical terms like Kurah, Qutbain, Khatte Sartan, Khatte Jaddi, Khatte Istiwa, Mintaqatul Burooj.	Presentation of Pictures and Video clip
41	Define the astronomical terms like Dairah Muaddilun Nahar, Dairah Nisf-un- Nahar	Presentation of Pictures and Video clip
42	Define Ilm-un-Nafs and describe the evolutionary changes in its definition.	Tutorial
43	Enumerate some of the most famous branches of Psychology.	Group Discussion
44	Explain the mutual connection between Ilm-un-Nafs and Tibb.	Tutorial
45	Define some important psychological terms like Ehsas, Idrak, Mushahida and Tawajjuh.	Group Discussion

Scheme of assessment (Formative and Summative)

MANTIQ O FALSAFA PAPER 2

Sl.No	PROFESSIONAL COURSE	Topics for Assessment			Term Test Topics (E)
		1 st PA Topics (A-1,2,3)	2 nd PA Topics (B-1,2,3)	3 rd PA Topics (C-1,2,3)	

1	First term (1-6 months)	<p>1. Tareef, Mauzu, aur Gharaz-o-Ghayat.</p> <p>(Definition, Aims and Objectives).</p> <p>2. Ilm aur Idrak, Aqam-e- Ilm, Tasawwur-o- Tasdeeq aur unki Aqam. (Knowledge and Perception, Kinds of Knowledge, Imagination and Judgement and their classification)..</p>	<p>1. Mu'arrif ya Qawl-e- Shaareh, Daleel ya Hujjat. (Definer or Explanatory Statement, Evidence or Argument).</p> <p>2. Dalaalat ki Tareef-o- Taqseem, Lafz ki Tareef-o- Taqseem. (Denotation: its definition and classification, Word: its definition and classification).</p>	<p>1. Mafhoom-e- Juzi wa Kullimae Aqam, Nisab-e- Arba'ah. (Conception, Specific/Particular and general and their kinds, Four Relations)</p> <p>2) Qazaya: Qaziyyah Hamliyyah ki jumla Aqam, Qaziyyah Shartiyyah ki dowa Qismen: Muttasilah-o- Munfasilah. (Propositions, Clause and its kinds, Conditional Clause and its two kinds viz. Attached and Detached Clause).</p>	<p>1. Tasawwur-o- Tasdeeq</p> <p>2. Dalaalat</p> <p>3. Qazaya</p>
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2	Second Term (7-14 onths)	<p>1. Tanaquz, Wehdaat-e-Samaniyah, and Aks</p> <p>(Contradiction, its eight Unities, and Reversion)</p> <p>2. Hujjat ki Aqam, Qiyas, Istiqra, Tamseel, Qiyas ki Qismein.</p> <p>(Division of Arguments, Analogy, Induction, Allegory, and Kinds of Analogy).</p> <p>3. Hikmat, Tareef-o- Taqseem, Mauzu aur Gharaz-o- Ghayat. (Philosophy, its Definition and kinds, Aims and objectives).</p>	<p>1. Jism, Jism-e- Taba'i, Jism-e- Taleemi, Heula, Surat-e- Jismiyyah, Surat-e- Nauiyyah ki Tareef. (Body, Physical Body, Educational Body, Matter, Shape, Definition of Body Shape and Species Shape).</p> <p>2. Makan, Hayyiz aur Shakl ki Tareef. (Definition of Space, Locus and Shape).</p>	<p>1. Harakat wa Sukoon ki Tareef, Gharaz-o- Ghayat, Aqam-o- Sharaayit. (Motion and Rest, their Definitions, Aims and Objectives, Kinds and Conditions).</p> <p>2. Maqoolat-e- Ashar, Zamanah ki Tareef-o- Tauzeeh. (Ten Categories, Definition of Time and its explanation).</p>	<p>1. Tanaquz</p> <p>2. Jism</p> <p>3. Harkat o sukoon</p>
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3	Third Term (13-18 months)	<p>1. Anasir ki Tareef, Aqam, Kaifiyyaat-o-Mizaaj.</p> <p>(Definition of Elements, Kinds, Conditions and Temperament (With brief description).</p> <p>2. Kaun-o- Fasad, Murakkabat-e- Tammah, Jamadat, Nabatat. Wa Nafse Nabati, Nafse Haiwani, Nafse Natiqah aur unke matehat kaam karne wali Quwwatein, Murakkabat-e- Naqisa ki Tareef mae Amsal.</p> <p>3. Ilm-e- Hay'at ki Tareef, aur Tib se uska Ta'alluq. (Definition of Astronomy and its relation with Medicine).</p>	<p>1. Kurah, Qutbain, Khatte Sartaan, Khatte Jaddi, Khatte Istiwa, Mintaqatul Burooj. (Globe, Earth Poles, Tropic of Cancer, Tropic of Capricorn , Equator, Zodiac Line).</p> <p>2. Dairah Muaddilun Nahar, Dairah Nisf-un- Nah. (Meridian Circle, Mid-day Circle).</p>	<p>1. Ilm-un-Nafs ki Tareef-o-Aqam. (Psychology, its Definitions and Kinds)</p> <p>2 Ilm-un-Nafs aur Ilm-e-Tib ka Bahami Rabt. Ehsas, Idrak, Mushahidah, aur Tawajjuh ka ta'arruf. (Description of Interrelation between Psychology and Medicine. Introduction of Feelings, Perception, Observation and Attention).</p>	<p>1. Anasir</p> <p>2. Definitions</p> <ol style="list-style-type: none"> Kurah, Qutbain, Khatte Sartaan, Khatte Jaddi, Khatte Istiwa, Mintaqatul Burooj. Dairah Muaddilun Nahar, Dairah Nisf-un-Nah. <p>3. Ilm-un-Nafs</p>
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Calculation of Internal assessment

	PERIODICAL ASSESSMENT	TERM TEST	TERM ASSESSMENT
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TERM	A	B	C	D	E	F	G
	1 (20)	2 (20)	3 (20)	Average (A+B+C /3) 20	Term Test (MCQ+SAQ+LAQ) And Practical (Maximum 20)	Sub Total	Term Assessment
FIRST						D+E	D+E /2
SECON D						D+E	D+E /2
THIRD					NIL	D	D
Final IA	Average of Three Term Assessment Marks as Shown in 'G' Column						

Scheme of assessment (Formative and Summative)

MANTIQ O FALSAFA PAPER 2

Sl.No	PROFESSIONAL COURSE	Topics for Assessment			Term Test Topics (E)
		1 st PA Topics (A-1,2,3)	2 nd PA Topics (B-1,2,3)	3 rd PA Topics (C-1,2,3)	
1	First term (1-6 months)	<p>1. Tareef, Mauzu, aur Gharaz-o-Ghayat.</p> <p>(Definition, Aims and Objectives).</p> <p>2. Ilm aur Idrak, Aqsam-e- Ilm, Tasawwur-o- Tasdeeq aur unki Aqsam. (Knowledge and Perception, Kinds of Knowledge, Imagination and Judgement and their classification)..</p>	<p>1. Mu'arrif ya Qawl-e- Shaareh, Daleel ya Hujjat. (Definer or Explanatory Statement, Evidence or Argument).</p> <p>2. Dalaalat ki Tareef-o- Taqseem, Lafz ki Tareef-o- Taqseem. (Denotation: its definition and classification, Word: its definition and classification).</p>	<p>1. Mafhoom-e- Juzi wa Kullimae Aqsam, Nisab-e- Arba'ah. (Conception, Specific/Particular and general and their kinds, Four Relations)</p> <p>2)Qazaya: Qaziyyah Hamliyyah ki jumla Aqsam, Qaziyyah Shartiyyah ki dow Qismen: Muttasilah-o- Munfasilah. (Propositions, Clause and its kinds, Conditional Clause and its two kinds viz. Attached and Detached Clause).</p>	<p>1. Tasawwur-o- Tasdeeq</p> <p>2. Dalaalat</p> <p>3. Qazaya</p>

2	Second Term (7-15 onths)	<p>1. Tanaquz, Wehdaat-e-Samaniyah, and Aks</p> <p>(Contradiction, its eight Unities, and Reversion)</p> <p>2. Hujjat ki Aqam, Qiyas, Istiqra, Tamseel, Qiyas ki Qismein.</p> <p>(Division of Arguments, Analogy, Induction, Allegory, and Kinds of Analogy).</p> <p>3. Hikmat, Tareef-o- Taqseem, Mauzu aur Gharaz-o- Ghayat. (Philosophy, its Definition and kinds, Aims and objectives).</p>	<p>1. Jism, Jism-e- Taba'i, Jism-e- Taleemi, Heula, Surat-e- Jismiyyah, Surat-e- Nauiyyah ki Tareef. (Body, Physical Body, Educational Body, Matter, Shape, Definition of Body Shape and Species Shape).</p> <p>2. Makan, Hayyiz aur Shakl ki Tareef. (Definition of Space, Locus and Shape).</p>	<p>1. Harakat wa Sukoon ki Tareef, Gharaz-o- Ghayat, Aqam-o- Sharaayit. (Motion and Rest, their Definitions, Aims and Objectives, Kinds and Conditions).</p> <p>2. Maqoolat-e- Ashar, Zamanah ki Tareef-o- Tauzeeh. (Ten Categories, Definition of Time and its explanation).</p>	<p>1. Tanaquz</p> <p>2. Jism</p> <p>3. Harkat o sukoon</p>
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3	Third Term (13-18 months)	<p>1. Anasir ki Tareef, Aqam, Kaifiyyaat-o-Mizaaj.</p> <p>(Definition of Elements, Kinds, Conditions and Temperament (With brief description).</p> <p>2. Kaun-o- Fasad, Murakkabat-e- Tammah, Jamadat, Nabatat. Wa Nafse Nabati, Nafse Haiwani, Nafse Natiqah aur unke matehat kaam karne wali Quwwatein, Murakkabat-e- Naqisa ki Tareef mae Amsal.</p> <p>3. Ilm-e- Hay'at ki Tareef, aur Tib se uska Ta'alluq. (Definition of Astronomy and its relation with Medicine).</p>	<p>1. Kurah, Qutbain, Khatte Sartaan, Khatte Jaddi, Khatte Istiwa, Mintaqatul Burooj. (Globe, Earth Poles, Tropic of Cancer, Tropic of Capricorn , Equator, Zodiac Line).</p> <p>2. Dairah Muaddilun Nahar, Dairah Nisf-un- Nah. (Meridian Circle, Mid-day Circle).</p>	<p>1. Ilm-un-Nafs ki Tareef-o-Aqam. (Psychology, its Definitions and Kinds)</p> <p>2 Ilm-un-Nafs aur Ilm-e-Tib ka Bahami Rabt. Ehsas, Idrak, Mushahidah, aur Tawajjuh ka ta'arruf. (Description of Interrelation between Psychology and Medicine. Introduction of Feelings, Perception, Observation and Attention).</p>	<p>1. Anasir</p> <p>2. Definitions</p> <p>j) Kurah,</p> <p>k) Qutbain,</p> <p>l) Khatte Sartaan,</p> <p>m) Khatte Jaddi,</p> <p>n) Khatte Istiwa,</p> <p>o) Mintaqatul Burooj.</p> <p>p) Dairah</p> <p>q) Muaddilun Nahar,</p> <p>r) Dairah Nisf-un-Nah.</p> <p>3. Ilm-un-Nafs</p>
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Calculation of Internal assessment

TER M	PERIODICAL ASSESSMENT				TERM TEST	TERM ASSESSMENT	
	A	B	C	D	E	F	G
	1 (20)	2 (20)	3 (20)	Average (A+B+C /3) 20	Term Test (MCQ+SAQ+LAQ) And Practical (Maximum 20)	Sub Total	Term Assessment
FIRST						D+E	D+E /2
SECON D						D+E	D+E /2
THIRD					NIL	D	D
Final IA	Average of Three Term Assessment Marks as Shown in 'G' Column						

S.NO	TOPIC	CHECK LIST
1	PRACTICAL / CLINICAL PERFORMANCE	➤ Not applicable
2	OPEN BOOK TEST	➤ Conducting open book test weekly
3	SUMMERY WRITING	➤ Summary of must known topics as per curriculum
4	WORKBOOK MAINTENANCE	➤ Maintaining and writing all curriculum related topics' .
5	SMALL PROJECTS	<ul style="list-style-type: none"> ➤ Preparing charts ➤ Power point presentation

CHECK LIST FOR PERIODIC ASSESSMENT

MANTIQ WA FALSAFA PAPER 2

QUESTION PAPER BLUE PRINT

Sl.No	Type of Question	Question Paper Format
Q1	<p>Multiple choice Questions (MCQ)</p> <p>20 Questions</p> <p>1 mark each</p> <p>All compulsory</p> <p>Must know 15 MCQ Desirable to know 3 MCQ Nice to know 2 MCQ</p>	<ol style="list-style-type: none"> 1. Topic number 1 2. Topic number 2 3. Topic number 3 4. Topic number 4 5. Topic number 5 6. Topic number 6 7. Topic number 7 8. Topic number 8 9. Topic number 9 10. Topic number 10 11. Topic number 11 12. Topic number 12 13. Topic number 13 14. Topic number 14 15. Topic number 15 16. Topic number 16 17. Topic number 17 18. Topic number 18 19. Topic number 19 20. Topic number 20
Q2	<p>Short answer Questions (SAQ)</p> <p>Eight Questions</p> <p>5 Marks Each</p> <p>All compulsory</p> <p>Must know 7 SAQ Desirable to know 1 SAQ No Questions on Nice to know</p>	<ol style="list-style-type: none"> 1. Topic number 1/2 2. Topic number 3/4 3. Topic number 5/6/7 4. Topic number 8/9 5. Topic number 10/11/12 6. Topic number 13/14/15 7. Topic number 16/17 8. Topic number 19/20
Q3	<p>Long answer Questions (LAQ)</p> <p>Four Questions</p> <p>10 marks each</p> <p>All compulsory</p> <p>All questions on must know No Questions on Nice to know and Desirable to know</p>	<ol style="list-style-type: none"> 1. Topic number 2/4 2. Topic number 5/7 3. Topic number 8/9/11 4. Topic number 12/13/15

MANTIQ WA FALSAFA PAPER 2

MCQ

1X20=20 Marks

2) Word Mantiq is driven from which language?

- b) Unani b) Farsi c) Arabic d) Urdu

1- فیطق کس زبان سے ماخوذ ہے؟

الف) یونانی (فارسی ج) عربی (د) اردو

2) literal meaning of Ilm is

- b) Padhna b) Janana c) Samazhna d) yaad karna

2- علم کا لغوی معنی ہے -

الف) پڑھنا ب) جاننا ج) سمجھنا د) یاد کرنا

3) Achieving an unknown concept by combining two or more known concept called.

- b) Hujjat ya qoul-e-shareh b) Tasdeeq c) Ilm d) Daleel

3- دو یا دو سے زیادہ معلوم تصورات کو ملا کر کسی نئے اور نامعلوم تصور کو حاصل کرنا کا نام ہے؟

الف) حجج و اقوال شارح ب) تصدیق ج) علم د) دلیل

4) Identify Mufrad

- b) Hamid b) Abdullah c) Mahe Ramzan d) Jame
Masjid

4- درج ذیل کلمات میں مفرد لفظ کی پہچان کیجئے۔

الف) حامد ب) عبد اللہ ج) ماہ رمضان د) جامع مسجد

5) Everything that comes to mind is

- b) Ilm b) Mafhoom c) Tasdeeq d) Daleel

5- وہ سب چیزیں جو ذہن میں آئیں۔

الف) علم ب) مفہوم ج) تصدیق د) دلیل

6) Zaid is standing and Zaid is not standing, What is this Qaziya?

b) Shartiya b) Hamliya c) Mahsoora d) Shartiya Muttasila

6 ذی کھڑا ہے اور ذی کھڑا ہے۔ ی کون سا قضا ہے؟

الف) قضا شریعی ب) قضا علمی ج) قضا محصورہ د) قضا شرعی (تفصیل)

7) Making the first part of sentence the second and the second part the first called

b) Aks b) Akse mustavi c) Akse naqiz d) Tanaquz

7- کئی قضا کے پہلے جز کو دوسرا، اور دوسرے جز کو پہلا کر دینا..... کہلاتا ہے۔

الف) عکس ب) عکس مہتوی ج) عکس رقیض د) تاناقض

8) How many types of Qiyas

b) 2 b) 4 c) 3 d) 5

8- قیاس کی کتنی قسमें ہیں؟

الف) دو ب) چار ج) چھ د) پانچ

9) Word Falsafa is driven from which language

b) Siryani b) Unani c) Farsi d) Arabi

9- فلسفہ کس زبان سے ماخوذ ہے؟

الف) سریانی ب) یونانی ج) فارسی د) عربی

10) Divided into width, length and depth called

b) Jisme talimi b) Hikmat c) Daleel d) Qaziya

10- چوڑائی، لمبائی اور گہرائی میں تقسیم ہو جانے والے..... کہلاتے ہیں۔

الف) جسم تعلیمی ب) حکمت ج) لہلہ د) قضا

11) Must Have a Makan for.....

b) Jism b) Daleel c) Ilm d) Khatte Jaddi

11- ... کے لئے مکان ضروری ہے۔

الف) جسم ب) لہلہ ج) غم د) خط جدی

12) How many things are necessary for Harkat?

- b) 3 b) 5 c)6 d)2

12- حرکت کے لئے کتنی چیزوں کا ہونا ضروری ہے؟

- الف) تین ب) پانچ ج) دو د) چھ

13) The theory of Maqolate Ashra is presented by

- b) Ibne Rushd b)Arastu c)Aflatoon d)Buqrat

13 مقالات عشر مکس کا لیبی ان کرہ نظریہ ہے۔

- الف) ابن رشد ب) ارسطو ج) الپون د) ابقراط

14) Air, Water, Fire, Soil called.....

- b) Anasir Arba b) Mawalid Salasa c)Hawase Khamsa d)Asbabe sitta

14- ہوا، آگ، پانی، مٹی، خاک کو..... کہا جاتا ہے۔

- الف) عناصر اربعہ ب) مٹی کی ثلاثہ ج) حواس خمسہ د) اسباب ستہ

15) Thing which made by four aliments called

- b) Murakkab Taam b)Murakkab Naqis c)Dalalat d)Tasdeeq

15- جو چار عناصر (ہوا، آگ، مٹی، پانی) سے مل کر بنیے گئے ہیں۔

- الف) مرکب تام ب) مرکب ناقص ج) اللات د) تھقیق

16) What do you mean by Astronomy?

- b) Ilm-e-Nabatat b)Ilm-e-Jmadat c)Falakiyat d) Ilm-e-Haiwanat

16- نجوم یعنی کس سے مراد؟

- الف) نجوم نباتات ب) نجوم جمادات ج) نجوم فلکیات د) نجوم حیوانات

17) How many Mantiqtul Burooj are there?

- b) 12 b)10 c)6 d) 8

17 منطقہ البروج کتنے ہیں؟

- الف) 12 ب) 10 ج) 6 د) 8

18) What do you mean by Nisfun Nahar?

b) Zawal Ka waqt b) Tuloo ka waqt c) Gurub ka waqt d) Chast ka waqt

18- نصف النہار سے مراد؟

الف) زوال کا وقت ب) طوع و غفٹ ابکا وقت ج) غروب غفٹ ابکا وقت د) چٹت کا وقت

19) What do you mean by psychology?

b) Falakiyat b) Nafsiyat c) Ilme Handsa d) Ilme Nabatat

19- غفٹ من لفس سے مراد؟

الف) فلکیات ب) نفسیات ج) غفٹ من ہس د) غفٹ من نباتات

20) Word Ihsaas, Idrak and Mushahada are driven from which language?

b) Urdu b) Farsi c) Arabi d) Unani

20- احس اس ، ادراک اور مشاہدہ کس زبان سے ماخوذ ہیں؟

الف) اردو ب) فرسی ج) عربی د) یونانی

MAQ

5X8=40 Marks

21) Explain the literal and terminological definition of Mantiq with the mention of its aims and objectives.

21- منطق کلاسیکی و لفظی تعریف اور اغراض و مقاصد کو بیان کیجئے۔

22) Define Dalalat, Daal, Madlool with examples.

22- دلالت ، دال اور ملول کی تعریف اور مثالوں کے ساتھ بیان کیجئے۔

23) Enumerate Kulliyat-e-Khamsah, illustrating each of them with examples.

23- کلیات خمسہ کی لکھی ہیں؟ ہر ایک کو مثال کے ساتھ بیان کیجئے۔

24) Define Hujjat and identify its classification.

24- حج تکیت عرفی اور تقسیمی کی وضاحت کی جائے۔

25) Describe 6 conditions for Harakah to take place.

25- حرکت کے لئے کن چھ چیزوں کی ضرورت ہے وضاحت کی جائے۔

26) Describe the Kaifiyyat-e-Arba'ah.

26 کفییات اربعہ کی وضاحت کی جائے۔

27) Define Kurah, Qutbain, Khatte Sartan, Khatte Jaddi, Khatte Istiwa, Mintaqatul Burooj.

27 کبر، قطبین، خط سرطان، خط جدی، خط طاسنوا، قطب بروج کی تعریف لکھیے۔

28) Explain the mutual connection between Ilm-un-Nafs and Tibb.

28- علم نفس اور علم طب کے درمیان باہمی ربط کی وضاحت کی جائے۔

LAQ

10X4=40 Marks

29) Explain Ilm and its classification.

29- علم اور اس کے مقاس نام فہرستیں لکھیے۔

30) Describe Mafhoom and its division with examples.

30 مفہوم اور اس کے مقاس نام تفصیلی سے لے بی ان کی جائے مثالوں کے ساتھ۔

31) Describe Istiqra and Tamseel with examples.

31- استقرا و تمشیل کی تعریف مثالوں کے ساتھ وضاحت کی جائے۔

32) Identify and enumerate Maqoolat-e-Ashar.

32 مقولات عشرہ کی نشان آخت کرتے ہوئے ان کی تعریف و مثالیں لکھیے۔

ರಾಜೀವ್ ಗಾಂಧಿ ಆರೋಗ್ಯ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಕರ್ನಾಟಕ

Rajiv Gandhi University of Health Sciences, Karnataka



URDU, ARABIC AND MANTIQA WA FALSAFA

URDU, ARABIC, LOGIC AND PHILOSOPHY

(Applicable from 2021-2022 batch onwards for five years)

COURSE CURRICULUM FOR FIRST PROFESSIONAL

(BUMS PRESCRIBED BY NCISM)

I professional BUMS

Subject Code: UNIUG-UAMF

Urdu, Arabic and Mantiq wa Falsafa

KEY POINTS

Total number of Teaching hours: 270			
Lecture hours (LH) – Theory		90 Hours	90 Hours (LH)
Paper I (Urdu-30 + Arabic-30)	60 Hours		
Paper II	30 Hours		
Non-Lecture hours (NLH) – Theory		180 Hours	180 Hours (NLH)
Paper I (Urdu-60 + Arabic-60)	120 Hours		
Paper II	60 Hours		
Non-Lecture hours (NLH) – Practical		NA	

Examination (Papers & Mark Distribution)					
Item	Theory Component Marks	Practical Component Marks			
		Practical	Viva	Elective	IA
Paper I	(Urdu-50 + Arabic-50) 100				
Paper II	100	--	30	--	20
Sub-Total	200	50			
Total marks	250				

Preface

This subject has 2 papers: ‘Paper I’ consists of Urdu and Arabic languages, whereas ‘Paper II’ comprises a combination of four subjects, which are *Mantiq*, *Falsafa*, *Hai'at* and *Ilm-un-Nafs*. Most of the classical texts of *Unani Tibb* are in Urdu and Arabic languages and characterized with a logical and philosophical approach. Therefore, the students need to learn Urdu and Arabic languages to get better understanding of *Tibb* and its terminologies, similarly, *Mantiq*, *Falsafa*, *Hai'at* and *Ilm-un-Nafs* (Logic, Philosophy, Astronomy and Psychology) are also very essential for them to understand the philosophical basis of *Unani Tibb* and its principal concepts. The Urdu language is a prerequisite for the entire Unani course, as texts of most of the subjects of Unani medicine are either in Urdu, or Persian or Arabic only. Furthermore, its knowledge is also very supportive for learning Arabic, as it includes all its alphabets, its script and a big number of its vocabulary.

This competency-based curriculum is designed and framed in such a way that, in a short span of time the students will learn the basics of the Urdu and Arabic languages and Greek Logic and Philosophy, and will be able to read the various important classical texts with right pronunciation and better understanding of all Urdu and Arabic terms related to *Unani Tibb*, in addition to understanding its logical and philosophical methods. Apart from the completely new framing of the curriculum, based on competency, some important topics like *Abwab-e-Thulathi Mazeed*, *Rubaai Mujarrad wa Mazeed*, *Isme Mubalgha* and *Tasgheer* have also been added to the Arabic Syllabus. This is because understanding of many *Tibbi* terms depends upon the study of these topics, which were lacking in the previous syllabus. A very interesting and good addition is of *Tibbi Ash'aar* (verses of *Unani Tibb*), this will not only make the students more attached to the ethos of Arabic language, but will also help in memorizing the principals of *Unani Tibb*. Now the syllabus is more comprehensive, covering almost all necessary aspects of the Urdu, Arabic languages and Unani philosophy.

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First BUMS:**Course Code and Names of Course**

	Course Code	Name of Course
	UNIUG-UAMF	Urdu, Arabic and Mantiq wa Falsafa (Urdu, Arabic, Logic and Philosophy)

Table 1- Course outcomes and matched Program outcomes

SR1 CO No	A1 Course Outcome (CO) UNIUG-UAMF At the end of the course UNIUG-UAMF, the student should be able to-	B1 Course Outcome matched with Program Outcomes.
1	(Urdu & Arabic) Recognize, read and write Urdu and Arabic words and numbers with their types and meanings, frame small sentences related to body parts, diseases, medical instruments and drugs.	PO1, PO5
2	Demonstrate remarkable linguistic skills while dealing with Urdu books of Unani course. Understand and describe Urdu and Arabic <i>Tibbi</i> terms used in different subjects of Unani Medicine, analyze their root words and their other derivatives, and use them properly with their correct spelling and pronunciation.	PO1, PO5
3	Demonstrate capability of accessing Urdu and Arabic dictionaries and <i>Tibbi</i> glossaries.	PO1, PO5
4	Translate short Urdu and Arabic medical texts into English/own language.	PO1, PO5
5	(Mantiq/Logic) Analyze and explain the logical composition of each definition in various subjects they study under medical education, and create their own definitions of new things.	PO1, PO3
6	Apply logical argumentation rules while explaining classical Unani texts.	PO1, PO2, PO3
7	Demonstrate logical approach and rational thinking in diagnosing diseases.	PO3, PO1
8	(Falsafa/Philosophy) Explain the classification of sciences in the ancient Greek Philosophy.	PO1
9	Identify and explain the old philosophical concepts on which Unani Medicine is based regarding human beings and the surrounding universe.	PO1
10	Compare the old philosophical interpretation of nature and its phenomena to that of modern science, which help them conceptually understand various topics of Unani Medicine.	PO1, PO8
11	(Hai'at/Astronomy) Identify and understand astronomical terms used in different subjects of Unani Medicine.	PO1, PO2
12	Analyze various astronomical factors that are supposed to be having impacts on human health while diagnosing diseases as well as prescribing medications.	PO1, PO2
13	(Ilmun-Nafs/Psychology) Explain the concept of <i>Nafs</i> in Unani Medicine and its importance in understanding of diseases.	PO1, PO2

Table 2: Contents of Urdu, Arabic and Mantiq wa Falsafa – (Paper I - Urdu and Arabic)

	A2 List of Topics UNIUG-UAMF	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours
	Part A: Urdu				
1	<p>حروف تہجی، حروف فکی مفرد اور مرکب ش کی لیں، حروف فکی ابتدائی، درمیانیاور آخری ش کی لیں،</p> <p>پکاری ش کی لیں، ہم صو تحروف، مصوتے اور مص م تے، حروف کی اقسام - ربط، عطف، تخصیص، فجائیہ، واو معدولہ، واو عطف، کھڑا لف، الف لمقصورہ، الف ممدودہ، لفوصل -</p> <p>اعراب، تنوین، تشدید، مد، حر، ف، رخا، حر فشرط، حر فاستثناء -</p> <p>Huroof-e- Tahajji, Huroof ki Mufrad aur Murakkab Shaklen, Huroof ki Ibtidai, darmiyani aur Akhri Shaklen, Hakari shaklen, Ham Saut Huroof, Musawwate aur musammate, Huroof ki Aqsaam-Rabt, Atf, Takhsees, Fujaiyyah, Waw Madoola, waw Atf, Khada Alif, Alif Maqsoora, Alif Mamdooda Alif wasl. Erab, Tanween, Tashdeed, Mad, Harfe Jaza, Harfe Shart, Harfe Istisna.</p>	I	0	4	8
2	<p>لفظ (کلمہ، مادہ، اشتقاق، دو حرفی لفظ، سبہ حر فیلفظ، چہا رحر فیلفظ، اسم اور اس کی قسمیں - فعل اور اس کی حالتیں - ضمیر اور اس کی قسمیں - صفت اور اس کی قسمیں - قواعد:</p> <p>1- مفرد لفظ (Simple word) 2- پیچید لفظ (Complex word) 3- مرکب الفاظ</p> <p>Compound words (تراد فی مرکب، مرکبات ربطی، مرکبات صیغی، مرکبات تاعدادی)</p> <p>4- تبع مہمل 5- اضما 6- فت 7- تثنیہ - واحد / جمع 7- ید کیر و ت (ن) جنس (8) - اضدا 9- سا بق اور لاحقہ -</p> <p>Lafz (Kalma)- Maddah – Ishtiqaq – Do Harfi Lfz, She Harfi Lafz, Chahaar Harfi Lfz- Ism aur Uski Qismen- Fe'l aur uski Halaten- Zameer aur uski Qismen- Sifat aur uski Qismen. Qawaid: Mufrad Lafz- Pecheeda Lafz-Murakkab Lafz-Taradufi Murakkab, Murakkabate Rabti, Murakkabate</p>	I	5	4	8

	Tauseefi, Murakkabate Adadi- Tabe Muhmal, Izafat, Tasniya, Wahid/Jama, Tazkeer wa Tanees (Jins), Azdaad, Sabqe aur Laheqe.				
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3.	<p>مستقل الفاظ کی قسمیں: 1- اسم 2- صفت 3</p> <p>- ضمیر 4 - فعل 5- تمیز - اسم کی اقسام: 1- 1</p> <p>سمخاص 2- اسم عام اسم عام کی اقسام: 1- اسم</p> <p>کیفیت 2- اسم جمع 3- اسم ظرف 4- اسم آلہ</p> <p>صفت کی اقسام: 1- صفت ذاتی 2- صفت نسبتی 3 -</p> <p>صفت عددی 4- صفت مقداری 5 - صفت</p> <p>ضمیری</p> <p>ضمیر کی اقسام: 1 - شخصی 2- مو صولہ 3 - استفہامیہ</p> <p>4- اش رہ 5- تنکیر</p> <p>Mustaqil Alfaaz ki qismen: Ism, Sifat, Zameer, Fe'l, Tameez, Ism ki Aqsaam: Ism Khas, Ism Aam, Ism Aam ki Aqsaam: Ism kifiyat, Ism Jama, Isme Zarf, Ism Aala, Sifat ki Aqsaam : Sifat Zati, Safat Nisbti, Sifat Adadi, Sifat Miqdaari, Sifat Zameeri, Zameer ki Aqsaam: Shakhsi, Mausoola, istifhamiya, Ishara, Tankeer.</p>	I	5	4	8
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4.	<p>فعل کے زمانے: 1- ما ضی 2- حال 3 - مستقبل</p> <p>معنی کے اعتبار سے فعل کی حالتیں: 1- لازم 2 -متعد 3 ی - تقص</p> <p>فعل کی صورتیں: 1-خبر ی 2-شرطی 3 -احتمالی 4 -امری 5 -مصدر ی</p> <p>فعل کے صیغے: 1- غا ی 2- حا ضر 3 -متکلم</p> <p>افعال ما ضی کی اقسام: ما ضی مطلق، ما ضی ت تمام، ما ضی تمام ، ما ضی شرطیہ ، ما ضی تمنائی ، ما ضی احتمالی</p> <p>افعال حال کی اقسام: مضارع، امر، حا لمطلق، حا ل ت تمام ، حا لاحتمالی افعال مستقبل کیاقسام :مستقبل مطلق، مستقبل مدامی -</p> <p>غیر مستقلا لفاظ کی قسمیں: 1- ربط 2 - عطف 3 - تخصیص 4- فجائیہ</p> <p>Fe'l ke Zamane: Mazi, Hal, Mustaqbil, Fe'l ki Halaten Mana ke Etebar se: lazim, Muta'addi, Naqis, Fe'l ki Surten: Khabari, Sharti, Ehtemali, Amri and Masdari, Fe'l ke Seghe: Ghaib, Hazir, Mutakallim, Afaal Mazi ki Aqsaam: Mazi Mutlaq, Mazi Natamaam, Mazi Tamaam, Mazi Shartiya, Mazi Tamannai, Mazi Ehtemali, Afaal Hal ki Aqsaam: Muzare, Amr, Hal Mutlaq, Hal Natamaam, Hal Ehtemali, Afaal Mustaqbil ki Aqsaam: Mustaqbil Mutlaq, Mustaqbil Madaami. Ghair Mustaqil Alfaaz ki Qismen: Rabt, Atf, Takhsees, Fujaiyah.</p>	I	5	4	08
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5.	<p>جملہ :</p> <p>1 -مفرد جملہ :مبتدا، خبر، فعلربط</p> <p>2 -مركب جملہ : ہم رتبہ جملہ، ت بع جملہ، استد راکي جملہ ، ترديد جملہ علامات: اوقاف ت وقفہ، سکتہ، رابطہ، ت فصي له، خ ت مه، سوالیہ، فجائیہ ت ندائیہ، قوسین ، خط ، واوین، زنجیرہ -</p> <p>Jumla: Mufrad Jumla- Mubtada, Khabar, Fe'le Rabt. Murakkab Jumla: Ham Rutba Jumla, Tabe Jumla, Istidraki Jumla, Tardeedi Jumla, Alaamaat: Auqaaf ya Waqfa, Sakta, Waqfa, Rabta, Tafseela, Khatma, Sawalia, Fujaiya, ya Nidaiya, Qousain, Khat, Wawain, Zanjeerah.</p>	I	10	5	10
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6.	<p>نظم و نثر کے چند منتخب ابواب (غزل، الٹی ہو گئیں سے تدبیریں میر تقی میر، دل ت داں تجھے ہوا کیا</p> <p>پے-اسد اللہ خان غال، ترا نئے ہند ی-علامہ اقبال، نظم رات- اسماعیل میرٹھی، آوارہ - مجاز،</p> <p>غال کا خط میر مہدی کے تم، ت ظم جہاں حکیم محمد اعظم خان، مسیح الملک حکیم اجمل خان، ورزش</p> <p>کے طریقے اور ہدایات، یطبا اشعار، مرثیہ حکیم محمود خان - لطاف حسین حالی، طب کات ریخیاکھ - کمال الدین مہدانی، رسوم و عادات - سرسید، عیدگاہ - پریم چند، قصہ حاتم طائی - میرا می - معاون</p> <p>کتاب: انتخاب ادب ترائے طب و حکمت)</p> <p>Nazm-o-Nasr ke Chand Muntakhab Abwab: (Ghazal: Meer- Ulti Ho Gain Sab Tadbeeren, Ghalib- Dile Nadan Tujhe Huwa kiya Hai, Tarana Hindi- Allama Iqbal, Nazm: Raat- Ismail Merathi, Aawarah- Majaz, Khat Mir Mehdi ke Naam-Ghalib, Nazime Jahan Hakeem Azam Khan, Hakeem Ajmal Khan, Warzish ke Tareeqe aur Hidayaat, Tibbi Ash'aar, Marsiya Hakeem Mahmood Khan- Altaf Husain Haali, Tib ka Tareekhi Khaaka- Kamaluddin Hamdani, Rusoom wo Aadaat- Sir Syed, Eidgaah- Prem Chand, Qissa Hatim Tai- Meer Amman)</p>	I	10	9	18
Part B: Arabic					
7.	<p>حروفِ بیجا، حر</p> <p>وف س م سی ہ و قمریہ، اسماء حرکا</p> <p>ت و اعداد۔</p> <p>Huroof-e-Hija, Huroof-e-Shamsiyyah, wa Qamariyyah, Asma-e-Harakaat –o-A'adad. (Arabic Alphabet, Solar and Lunar Letters, Arabic Vowels and Numerals.)</p>	II	0	1	1
8.	<p>کلمہ اور اس کی اقسام، اسم</p> <p>حرف۔</p> <p>Kalimah aur uski Aqam Ism, Fe'l, Harf. (Word and its kinds, Noun, Verb, Particle).</p>	II		1	1
9.	<p>اسم کی تقسیم بلحاظ تعریف و</p> <p>تنکیر، بلحاظ جنس، بلحاظ عدد۔</p> <p>Ism ki Taqseem balehaz-e- Tareef-o-Tamkeer, balehaz-e-Jins, balehaz-e-Adad. (Kinds of Noun according to definition like (Definite noun, Indefinite noun), Gender, and Number).</p>	II	10	1	3

10.	مرکب اور اس کی اقسام - م Murakkab aur uski aqsam. (Compound word and its kinds).	II	10	1	1
11.	مرکب ت قص : مرکب اضافی ، مرکب توصیفی ، مرکب کب ا شری - Murakkab-e-Naqis: Murakkab-e-Izafi, Murakkab-e-Tauseefi, Murakkab-e-Ishari. (Incomplete Compound: Possessive Compound, Adjectival Compound, Demonstrative Compound).	II		2	4
12.	مرکب ت م ت کلام: جملہ اسمیہ ، جملہ فعلیہ - Murakkab-e-Taam ya Kalam, Jumlah Ismiyyah, Jumlah Fe'liyyah. (Complete Murakkab, or Sentence, Nominal Sentence, Verbal Sentence).	II		2	4
13.	فعل اور اس کی اقسام ت اعتبار زمانہ: ما ضی ، حال ، مستقبل - Fe 'l aur uski Aqam ba etebar-e-Zamana: Mazi, Hal, Mustaqbil. (Verb and its kinds according to Tense: Past, Present and Future).	II	1	1	
14.	گردان ماضی اور اس کے صیغہ - Gardan-e-Mazi aur uske Seeghe. (Conjugation of Past tense and its Moods)	II	15	1	2
15.	گردان مضارع اور اس کے صیغہ - Gardan-e-Muzare aur uske Seeghe. (Conjugation of Indefinite Present and Future Tense and its Moods).	II		1	2
16.	فعل ثلاثی مجری د اور اس کے ابواب - Fe'l-e-Sulasi Mujarrad aur uske Abwab. (Triliteral Primitive Verb and its Patterns).	II		1	2
17.	فعل ثلاثی م ری د اور اس کے ابواب ب - Fe'l-e-Sulasi Mazeed aur uske Abwab (Triliteral Derived Verb and its Patterns).	II	2	4	
18.	فعل رباعی مجرید وم رید - Fe'l-e-Rubae Mujarrad wa Mazeed. (Quadriliteral Verb, Primitive and Derived)	II	1	1	

CONTENTRE ORGANIZATION OF KULLIYAT-E-UMOOR-E-TABIYA (THEORY)

S No`	Topic	Hours	LEARNING CONTENT DISTRIBUTION			Weight age
			Must know	Desirable to know	Nice to know	
1	Mabhas-i-‘Ām (General discussion)					10
		12hours (7 Lectures, 5 Non-Lectures)				
	a. ‘Ilm Ṭibb’ Mawḍū, Gha'raq-o Ghāyat and its types					
			Define ‘Ilm Ṭibb	---	---	
			Describe the Mawḍū (Subject)	---	---	
			Discuss Gha'raq-o Ghāyat (Objective) of Ṭibb	---	---	
			List Aqsām Ṭibb Ma’ Amthāl (Classification of Ṭibb along with their examples)	---	---	
			Define Ṭibb Na’zri and its Importance	---	---	
			Define Ṭibb ‘Amali and its application			
	b. Asbāb-e-Wujūd Insāni and its classification					
			List types of Asbāb-e- Wujūd Insāni	---	---	
			Define Asbāb Māddiyya significance and its relevance in present perspective			
			---	Define Asbāb Fā’ila significance and its relevance in present perspective	---	

S No`	Topic	Hours	LEARNING CONTENT DISTRIBUTION			Weight age
			Must know	Desirable to know	Nice to know	
				Define Asbāb Şūriyya, significance and its relevance in present perspective		
				Define Asbāb Tamāmiyya		
c. Umūr Ṭabiyya, importance and classification						
			Define Umūr Ṭabiyya and their importance	---	---	
			List the Umūr Ṭabiyya	---	---	
d. Ṭabī'at: understanding, importance, tools, and immunity						
			Define Ṭabī'at and its importance	---	---	
			Distinguish the concepts/understanding of Ṭabī'at proposed by different Unani Scholars	---	---	
			List Āla Ṭabī'at (Tools of physics)	---	---	
			Describe Mana'at (Immunity) and explain its relevance with understanding of Ṭabī'at	---	---	
e. Ḥarārat Gharīziyya; concept, understandings, functions, Ruṭūbat Gharīziyya,						
			Explain the concept of Ḥarārat Gharīziyya			
			---	Explain the functions of Ḥarārat Gharīziyya in the body		
			Describe Ruṭūbat Gharīziyya			

S No`	Topic	Hours	LEARNING CONTENT DISTRIBUTION			Weight age
			Must know	Desirable to know	Nice to know	
				Describe the association between Ruṭūbat Gharīziyya and Ḥarārat Gharīziyya		
				Define Ḥarārat Gharībaandits Effecton the body		
					Explain the relationship between Ḥarārat Gharībaand'Ufū nat	
2	Arkān/'Anāshir					10
		9Hours (5 Lectures, 4Non-Lectures)				
	a)Arkān/'Anāshir					
			Define Arkān/'Anāshir			
	b.(ConceptofArkānArba'a)					
			Explain and demonstrate the concept Of ArkānArba'a in detail			
	c.Arkān,'AnāshirandUṣṭuqussāt					
			Distinguish/ differentiate between the term of Arkān,'Anāshir and Uṣṭuqussāt			
	d.KayfiyātArba'a					
			Define Kayfiyāt and describe KayfiyātArba'a			
	e. Types of Arkān					

S No`	Topic	Hours	LEARNING CONTENT DISTRIBUTION			Weight age
			Must know	Desirable to know	Nice to know	
			List of Arkān			
			Describe Nār (fire) as a constitutional element, its significance, and its natural position			
			Describe Hawā (air) as a constitutional element, its significance, and its natural position			
			Describe Mā' (water) as a constitutional element ,Its Significance and its natural position			
f. Theorem of structural peculiarity of modern science						
			Comparison			
g. Clinical orientation of 'Anāṣir in case of their excess and deficiency						
				List the clinical orientation of 'Anāṣir incase of their excess and Deficiency		

3	Mizāj/Kayfiyāt					20
		23Hours (15Lectures, 8 Non-Lectures)				
a. Mizāj: Definition, explanation, significance and types						
			Define Mizāj/Kayfiyāt			
			Explain the concept of Mizāj and its significance			
			List the types of Mizāj			

b.Mizāj Mu'tadil						
			Describe MizājMu'tadilḤaqīqī			
			Describe MizājGhayrMu'tadil			
			Define 'Adlfi'IQisma			
c.Mizāj Mu'tadilṬibbī						
			Define Mizāj Mu'tadilṬibbī			
			List Mizāj Mu'tadil Ṭibbī			
				Define Mizāj Mu'tadilNaw'ṭbi'l Qiyāsila'l Khārij with example		
				Define Mizāj Mu'tadilNaw'ṭb i'l Qiyās ila'l Dākhil with example		
				Define Mizāj Mu'tadilṢinfī bi'l Qiyāsila'lKhārij with example		
				Define Mizāj Mu'tadilṢinfī bi'l Qiyāsila'lDākhil with example		
				Define Mizāj Mu'tadilShakhṣībi'l Qiyāsila'lKhārij with example		
				Define Mizāj Mu'tadilShakhṣībi'l Qiyās ila'l Dākhil with example		
				Define Mizāj Mu'tadil'Uḍwīb i'l Qiyāsila'lKhārij with		

				example		
				Define Mizāj Mu'tadil'Uḍwīb ī'l Qiyās ila'l Dākhil with example		
d.MizājGhayrMu'tadil						
			List the types of MizājGhayr Mu'tadil			
e.Amjiza A'ḍā'						
			Identify the A'ḍā' Mu'tadila along with their constitutional hierarchy and its justification			
			Identify the A'ḍā' Ḥārra along with constitutional hierarchy and its justification			
			Identify the A'ḍā' Bārīda along with Constitutional hierarchy and its justification			
			Identify the A'ḍā' Yābisa alongwith constitutional hierarchy and its justification			
			Identify the A'ḍā' Raṭḃa along with Constitutional hierarchy and its justification			
f.Mizāj InsānīandAjnās'Ashara						
			Appraise the Mizāj Insānī (humanconstitution)basedonAjnās 'Ashra			
g.Amjiza Asnān						
			Classify the AmjizaAsnān (constitutional of different stages)			
			Explain Sinn-i-Numū			

			Explain Sinn-i-Shabāb			
			Explain Sinn-i-Kuhūlat			
			Explain Sinn-i-Shaykhūkhat			
h.MizājAjnās						
			Explain the necessity and Significance of MizājAjnās			
i.MizājIqlīm						
				Describe different doctrinesin Respect to fMizājIqlīm		
					Identify equable temperament of Iqlīm with argument	
j. TashkhiṣMaraḍ and Mizāj						
					Explain the importance of Mizāj in diagnosis of diseases	
k. Recommendation of diets, drugs and Mizāj						
					Describe the importance of Mizājin Tashkhiṣ	
					Explain the importance of Mizājin Prescribing medicine	
4	Akhlāt					

		21hrs(15lecturehrs,6 non lecturers)				15
a) Akhlāt: definition, concept and understanding and types						
			Define Akhlāt			
				Explain different the oriesin respect of production of Akhlāt		
			List the types of Akhlāt			
			Explain the TawlīdAkhlāṭindetails			
b.RuṭūbatŪlāand Thāniya						
			Describe RuṭūbatŪlā and their classification			
			Describe RuṭūbatThāniya and Their classification			
c.KhilṭDam: definition, explanation, importance ,types, and application						
			Describe Dam and its constitutional Hierarchy along with arguments			
			List types of Dam			
			Discuss Ṭabī'ī Dam and its characteristics			
				Discuss Ghayr Ṭabī'īDam and its classification		
					Discuss and List Amrāḍ Damwiyya	
d.KhilṭBalgham: definition, explanation, importance, types and application						
			Define Balgham and its constitutional hier archy along with Argument sand its benefits			
			List the types of Balgham			

			Define Ṭabī'ī Balgham, its Characteristics and necessities			
			Define Balgham Ghayr Ṭabī'ī			
					List the types of Balgham Ghayr Ṭabī'ī based on taste	
					List the types of Balgham Ghayr Ṭabī'ī based on consistency	
					List the types of Balgham Ghayr Ṭabī'ī based on Rāyefia (odor)	
					Classify Amrāḍ Balghamiyya	
e. Khilṭ Safrā: definition, explanation, importance, types, and application						
			Define Ṣafrā', its constitutional hierarchy along with arguments And its benefits			
			List the types of Ṣafrā'			
			Define Ṣafrā' Ṭabī'ī, its Characteristic and significance			
				Describe Ṣafrā' Ghayr Ṭabī'ī along With its classification		
					List the Amrāḍ Ṣafrāwiyya	
f. Khilṭ Sawdā: definition, explanation, importance, types, and application						
			Define Sawdā', its constitutional hierarchy with their arguments and benefits			
			List the types of Sawdā'			

			Define Sawdā' Ṭabī'ī, its Characteristic sand significance			
			Describe Sawdā' Ghayr Ṭabī'ī along With its classification			
					List the Amrāḍ Sawdāwiyya	
g. Justification of Arb'iat Akhlāt						
			Justify the Arb'iat Akhlāt based on arguments			
5	A'ḍā'					
		9hrs(5lecturehrs ,4 non lecturers)				
a. A'ḍā': Description and their classification						
			Describe A'ḍā' (Organs)			
			Classify A'ḍā' (Organs)			
b. Definition of A'ḍā' Mufrada, classification, opinions of different physicians						
			Define A'ḍā' Mufrada (Simple Organs)			
			Classify the A'ḍā' Mufrada			
			List the A'ḍā' Mufrada and their structure and functions			
				Explain the genesis of A'ḍā' Mufrada and controversy amongst different group of physicians		
				Justify the reason for inclusion of Sha'r (Hair), Zufr (Nail) and Mukhkh (Marrow) in A'ḍā' Mufrada		

	c. Definition of A'ḍā' Murakkaba with their classification					
			Define A'ḍā' Murakkaba (Compound Organs) with their classification			
	d. A'ḍā' Ra'īsa					
			Define A'ḍā' Ra'īsa (Vital Organs) and their classification			
	e. A'ḍā' Khādima					
			Define A'ḍā' Khādima (Subordinate Organs)			
	f. 'Uḍw Mu'ṭī and 'Uḍw Qābil					
				Explain the concept of 'Uḍw Mu'ṭī (Donor Organ)		
				Explain the concept of 'Uḍw Qābil (Recipient Organ)		
6	Arwāḥ					
		8hrs (5 lecture hrs, 3 non lecturers)				10
	a) Definition of Arwāḥ and their classification					
			Define Arwāfi and their classification			
	b) Concept of Rūḥ according to different Unani Scholars					
				Describe the Concept of Arwāfi (Pneuma) according to different Unani Scholars		

	c) Functions of Arwāḥ and their Masālik					
			Classify the functions of Arwāfi and their Masālik(channels)			
	d)Tanqiya and Tarwīḥ					
			Discussion brief Tanqiyaand Tarwīfi			
	e) Concentration of Rūḥ in different organs					
				Analyze the concentration of Rūfiin Different organs		
7	Quwā					
		24hrs(15teaching hours,9 non teaching hrs)				20
	a) Definition of Quwā with their classification					
			Define Quwā(Powers or Faculties) With their classification			
	b)QuwāNafsāniyya: definition, classification, functions ,and complications					
			Describe QuwāNafsāniyya (PsychicorMentalFaculty) in brief			
			DiscussQuwwatMufiarriḳa (Motor Faculty)			
				Discuss A'rāḍ QuwwatMufiarriḳa (Motor Faculty)		
			Discuss QuwwatMudrika (Faculty of Perception)			
			Discuss ḤawāskhamsaZāhira (Five Special Senses)			
			Describe QuwwatBāṣira (Power of Vision)			
			DescribeQuwwatSāmi'a (Power of Hearing)			
					List A'rāḍ	

					Quwwat Sāmi'a (Power of Hearing)	
			Describe Quwwat Shāmma (Power of Smell)			
					List A'rāḍ Quwwat Shāmma	
			Describe Quwwat Dhā'iqa (Power of Taste)			
					List A'rāḍ Quwwat Dhā'iqa	
			Describe Quwwat Lāmisa (Power of Tactile Sensation)			
					List A'rāḍ Quwwat Lāmisa	
			Describe Ḥawās Khamsa Bāṭina (Intellectual Senses)			
					List A'rāḍ Ḥawās Khamsa Bāṭina	
			Describe Ḥiss Mushtarak (Power of Composite Senses)			
			Quwwat Mutakhayyila			
			Describe Quwwat Ḥafīza (Power of Memory)			
			Describe Quwwat Mutaṣarifa (Power of modification)			
			Describe Quwwat Wāhima (Power of apprehension)			
c) Quwā Ḥaywāniyya: definition, classification, functions, and complications						
			Describe Quwwat Ḥaywāniyya (Vital Faculties)			
			Describe Quwwat Fā'ila and Munfa'ila Ḥaywāniyya			
				Discuss the advantages of Inqibāḍ Qalb and Inbisāṭ Qalb		

				(Systolic and Diastolic movements of The Heart)		
					List A'raḍ Quwwat Ḥaywāniyya	
d) Quwāṭabī'iyya: definition, classification, and functions						
			Define and Classify Quwwat Ṭabī'iyya (Physical Power)			
			Define and explain the functions of Quwwat Ghādhīya			
			Define and explain the functions of Quwwat Nāmiyya (Power of Growth)			
			Describe Sharā'iṭ-i-Taghdhiya (Conditions of nutrition) in detail			
			Explain the Functional stages of Quwwat Ghādhīya at organ level			
			Explain the functions of Quwwat Muḡhayyira (Power of transformation)			
			Define and explain the functions of Quwwat Muwallida Define and explain the functions of Quwwat Muṣawwira (Molding Power)			
			Describe Taghayyurāt Ghidhā' (Metabolism of Nutrients) in detail			
			Explain the functions of Quwwat Jādhiba, Māsika, Hāḍima and Dāfi'a (Powers of absorption, retention, digestion, and excretion)			
			List Huḍūm Arba'a (Four Digestions)			
				Describe Haḍm Mi'dī (The Elementary Digestion) in detail		

				Describe Haḍm Kabidī(The Hepatic Digestion) In detail		
				Describe Haḍm'Urūqī(Vascular Digestion)in detail		
				Describe Haḍm'Uḍwī(Cellular Digestion)in detail		
e)QuwāTanāsuliyya: definition, classification, and complications						
			Define and classify the QuwwatTanāsuliyya (Power of reproduction)			
			List A'rāḍQuwwatTanāsuliyya (Power of reproduction)			
f) Classification of the Af'āl (Functions)according to Quwā(Powers)						
			Classify the Af'āl(Functions) According to Quwā(Powers)			
			Explain relationship between Af'āl And Quwā			
				Explain relationship between Af'āl And Quwā		
g) Association amongst Quwāand the role of Ṭabī' at						
					Explain the association amongst Quwāand the Role of Ṭabī'at	
7.	Af'āl					
		6hrs(Lecture5hours, Nonlecture1hour)				5
a)Definition and classification of Af'āl						
			Define and classify Af'āl			

	b)Fi'lMufrad					
			Define and classify Fi'lMufrad			
	c)Fi'lMurakkab					
			Define and classify Fi'lMurakkab			
	d)A'rāzAf'al					
			Describe A'rāz Af'al			

S.NO	CHAPTER	MARKSDISTRIBUTION					TOTAL MARKS
		MUSTKNOW	DESIRABLE TOKNOW	MCQ	SHORT ESSAY	LONG ANSWER	
1	Mabhas-i-Ām			YES	YES	NO	10
		Define 'Ilm Ṭibb					
		Describe the Mawḍū (Subject)					
		DiscussGha'raḍ-o Ghāyat(Objective) of Ṭibb					
		listAqsām'Amthāl(Classification of Ṭibbalong with their examples)					
		Define Ṭibb Na'zri and its importance					
		Define Ṭibb'Amali and its application					
		Enlist types of Asbāb-i-WujūdInsāni					
		DiscussAsbāb-i-WujūdInsāni					
		Define Asbāb Māddiyya significance and its relevance in present perspective					
		Define Asbāb Fā'ila significance and its relevance in present perspective					
			Define AsbābŠūriyya , significance and its relevance in present perspective				
		Define Umoor Ṭabiyya and their importance					
		List the UmoorṬabiyya					
		Define Ṭabī'at and its importance					
		Distinguish the concepts/underst and ing of Ṭabī'at proposed by different Unani Scholars					
			list Āla Ṭabī'at(Tools of physic)				
			Describe Mana'at(Immunity) and Explain its relevance with underst and ing of Ṭabī'at				

			Explain the concept of Ḥarārat				
			Gharīziyya				
			Explain the functions of Ḥarārat Gharīziyyain the body				
			Describe RuṭūbatGharīziyya				
			Describe the association between RuṭūbatGharīziyya and ḤarāratGharīziyya				
			Define ḤarāratGharībā and its effect on the body				
2.	Arkān/ 'Anāšir			yes	yes	Yes	10
		Define Arkān/'Anāšir					
		Explain and demonstrate the concept of ArkānArba'a in detail					
		Distinguish/ differentiate between the term of Arkān, 'Anāšir and Uṣṭuqussāṭ					
		Define Kayfiyāt and Describe KayfiyātArba'a					
		List of Arkān					
		Describe Nār (fire) as a constitutional element, its significance , and its natural position					
		Describe Hawā (air) as a constitutional element, its significance, and its natural position					
		Describe Mā' (water) as a constitutional element, its significance and its natural position					
		Describe Hawā (air) as a constitutional element, its significance, and its natural position					

			List the clinical orientation of 'Anāshir in case of their excess and Deficiency				
3	Mizāj/ Kayfiyāt			Yes	Yes	Yes	20
		Define Mizāj/Kayfiyāt					
		Explain the concept of Mizāj and its significance					
		List the types of Mizāj					
		Describe Mizāj Mu'tadilḤaqīqī					
		Describe MizājGhayr Mu'tadil					
		Define 'Adlfī'IQisma					
		Define MizājMu'tadilṬibbī					
		List MizājMu'tadilṬibbī					
			Define Mizāj Mu'tadil Naw'ī bi'IQiyās ila'l Khārijwi the example				
			Define Mizāj Mu'tadil Naw'ī bi'IQiyāsila'IDākhil With example				
			Define Mizāj Mu'tadil Şinfī bi'IQiyāsila'lKhārij with example				
			Define Mizāj Mu'tadil Şinfī bi'IQiyāsila'IDākhil With example				
			Define Mizāj Mu'tadil Şinfī bi'IQiyāsila'IDākhil with example				
			Define Mizāj Mu'tadil Shakhṣībī'l Qiyās ila'l Khārij with example				
			Define Mizāj Mu'tadil Shakhṣībī'l Qiyās ila'l Dākhil with the example				
			Define Mizāj Mu'tadil 'Uḍwī bi'IQiyāsila'lKhārij with the example				

			Define Mizāj Mu'tadil 'Uḍwī bi'lQiyās ila'l Dākhilwith the example				
			List the types of MizājGhayr Mu'tadil				
		✓ Identify the A'ḍā' Mu'tadilaal ong					
		✓ with their constitutional hierarchy and its justification					
		Identify the A'ḍā' Ḥārra along with constitutional hierarchy and its justification					
		Identify the A'ḍā' Bārida along with constitutional hierarchy and its justification					
		Identify the A'ḍā' Yābisa along with constitutional hierarchy and its justification					
		Identify the A'ḍā' Raṭḇa along with constitutional hierarchy and its justification					
		Appraise the Mizāj Insānī(human constitution) based on Ajnās'Ashra					
		Classify the Amzija Asnān(constitution of different stages)					
		Explain Sinn-i-Numū					
		Explain Sinn-i-Shabāb					
		Explain Sinn-i-Kuhūlat					
		Explain Sinn-i-Shaykhūkhat					
		Explain the necessity and significance of MizājAjnās					
			Describe different doctrines in respect of MizājIqlīm				
4	Akhlāṭ			Yes	Yes	Yes	15
		Define Akhlāṭ					

			Explain different the ories in respect of production of Akhlāṭ				
		List the types of Akhlāṭ					
		Explain the Tawlīd Akhlāṭ in details					
		Describe Ruṭūbat Ūlā and the ir classification					
		Describe Ruṭūbat Thāniya and their classification					
		Describe Dam and its constitutional hierarchy along with arguments					
		List types of Dam					
		Discuss Ṭabī'ī Dam and its characteristics					
			Discuss Ghayr Ṭabī'ī Dam and its classification				
		Define Balgham and its constitutional their archy along with Arguments and its benefits					
		List the types of Balgham					
		Define Ṭabī'ī Balgham, its characteristics and necessities					
		Define Balgham Ghayr Ṭabī'ī					
		Define Ṣafrā', its constitutional hierarchy along with Argument s and its benefits					
		List the types of Ṣafrā'					
		Define Ṣafrā' Ṭabī'ī, its characteristic s and significance					
			Describe Ṣafrā' Ghayr Ṭabī'ī along with its classification				
		Define Sawdā', its constitutional hierarchy with their arguments and benefits					
		List the types of Sawdā'					
		Define Sawdā' Ṭabī'ī, its characteristics and Significance					
		Describe Sawdā' Ghayr Ṭabī'ī along With its classification					

		Justify the Arb'iat Akhlāṭbasedon arguments					
5	A'ḍā'			YES	YES	NO	10
		Describe A'ḍā'(Organs)					
		Classify A'ḍā'(Organs)					
		Define A'ḍā'Mufrada(Simple Organs)					
		Classify the A'ḍā'Mufrada					
		List the A'ḍā' Mufrada and the ir structure and functions					
			Explain the genesis of A'ḍā' Mufrada and controversy amongst different group of physicians				
			Justify the reason for inclusion of Sha'r (Hair), Ḍufr(Nail) and Mukhkh (Marrow) in A'ḍā'Mufrada				
			Define A'ḍā'Murakkaba(Compound Organs) with their classification				
			Define A'ḍā' Ra'ṣa(Vital Organs) and their classification				
			Define A'ḍā'Khādim a(Subordinate Organs)				
			Explain the concept of 'UḍwMu'ṭī (Donor Organ)				
			Explain the concept of 'UḍwQābil (Recipient Organ)				
6	Arwāḥ			YES	YES	NO	10
		Define Arwāfi and their classification					
			Describe the Concept of Arwāfi (Pneuma) according to different Unani Scholars				

		Classify the functions of Arwāfi and their Masālik (channels)					
		Discussing brief Tanqiya and Tarwīfi					
		Analyze the concentration of Rūfiin Different organs					
7	Quwā			YES	YES	YES	20
		Define Quwā (Powers or Faculties) with their classification					
		Describe Quwā Nafsāniyya (Psychic or Mental Faculty) in brief					
		Discuss QuwwatMufiarriḳa (Motor Faculty)					
			Discuss A'rāḍQuwwat Mufiarriḳa (Motor Faculty)				
		Discuss Quwwat Mudrika(Faculty of Perception)					
		Discuss Ḥawās Khamsa Zāhira (Five Special Senses)					
		Describe QuwwatBāṣira(Power of Vision)					
		Describe Quwwat Sāmi'a(Power of Hearing)					
		Describe Quwwat Shāmma(Power of Smell)					
		Describe Quwwat Dhā'iqa(Power of Taste)					
		Describe Quwwat Lāmisa(Power of Tactile Sensation)					
		Describe Ḥawās Khamsa Bāṭina (Intellectual Senses)					
		Describe Ḥiss Mushtarak (Power of Composite Senses)					
		Quwwat Mutakhayyila					
		Describe Quwwat Ḥafiẓa (Power of Memory)					

		Describe Quwwat Mutaṣarifa (Power of modification)					
		Describe Quwwat Wāhima (Power of apprehension)					
		Describe Quwwat Ḥaywāniyya (Vital Faculties)					
		Describe Quwwat Fā'ila and Munfa'ila Ḥaywāniyya					
			Discuss the advantages of Inqibāḍ Qalb and Inbisāt Qalb (Systolic and Diastolic movements of the Heart)				
		Define and Classify Quwwat Ṭabī'iyya (Physical Power)					
		Define and Explain the functions of Quwwat Ghādhiya					
		Define and Explain the functions of Quwwat Nāmiya (Power of Growth)					
		Describe Sharā'it- i- Taghdhiya (Conditions of nutrition) in detail					
		Explain the Functional stages of Quwwat Ghādhiya at organ level					
		Explain the functions of Quwwat Mughayyira (Power of transformation)					
		Define and Explain the functions of Quwwat Muwallida Define and Explain the functions of Quwwat Muṣawwira (Molding Power)					
		Describe Taghayyurāt Ghidhā' (Metabolism of Nutrients) in detail					
		Explain the functions of Quwwat Jādhiba, Māsika, Hāḍima and Dāfi'a (Powers of absorption, retention, digestion, and excretion)					
		List Huḍūm Arba'a (Four Digestions)					

			Describe HaḍmMi'dī (the Elementary Digestion)in detail				
			Describe HaḍmKabidī (the Hepatic Digestion)in detail				
			Describe Haḍm'Urūqī (Vascular Digestion) in detail				
			Describe Haḍm'Uḍwī (Cellular Digestion) In detail				
		Define and classify the Quwwat					

		Tanāsuliyya (Power of reproduction)					
		List A'rāḍ Quwwat Tanāsuliyya (Power of reproduction)					
		Classify the Af'āl (Functions) according to Quwā(Powers)					
		Explain relationship between Af'āl and Quwā					
			Explain relationship between Af'āl and Quwā				
8	Af'āl			YES	YES	NO	5
		Define and classify Af'āl					
		Define and classify Af'āl					
		Define and classify Fi'lMurakkab					
		Describe A'rāḍ Af'āl					

QUESTION PAPER BLUE PRINT

Question Sr. No	Type of Question	Question Paper Format
Q1	<p>Multiple choice Questions (MCQ)</p> <p>20 Questions</p> <p>1 mark each</p> <p>All compulsory</p> <p>Must know 15 MCQ Desirable to know 3 MCQ Nice to know 2 MCQ</p>	<ol style="list-style-type: none"> 1. Topic number 1a./ 1b./ 1c./ 1d./ 1e 2. Topic number 2a./ 2b./ 2c./ 2d 3. Topic number 2e/ 2f./ 2g 4. Topic number 3a./ 3c 5. Topic number 3e./ 3f 6. Topic number 3g./ 3h./ 3i. 7. Topic number 3j./ 3k./ 4a. 8. Topic number 4b./ 4c./ 4d. 9. Topic number 4e./ 4f./ 4g. 10. Topic number 5a./ 5b./ 5c. 11. Topic number 5d./ 5e. 12. Topic number 5f./ 6a. 13. Topic number 6b./ 6c. 14. Topic number 6d./ 6e. 15. Topic number 7a./ 7b. 16. Topic number 7c./ 7d. 17. Topic number 7e./ 7f. 18. Topic number 8a./ 8b. 19. Topic number 8c. 20. Topic number 8d.
Q2	<p>Short answer Questions (SAQ)</p> <p>Eight Questions</p> <p>5 Marks Each</p> <p>All compulsory</p> <p>Must know 7 SAQ Desirable to know 1 SAQ No Questions on Nice to know</p>	<ol style="list-style-type: none"> 1. Topic number 1a./ 1b./ 1d./ 1e. 2. Topic number 2a./ 2c./ 2d./ 2g. 3. Topic number 3b./ 3i./ 3j./ 3k. 4. Topic number 4d./ 4e./ 4f./ 4g. 5. Topic number 5a./ 5d./ 5e./ 5f. 6. Topic number 6a./ 6c./ 6d./ 6e. 7. Topic number 7b./ 7d./ 7f./ 7g. 8. Topic number 8a./ 8b./ 8c./ 8d.
Q3	<p>Long answer Questions (LAQ)</p> <p>Four Questions</p> <p>10 marks each</p> <p>All compulsory</p> <p>All questions on must know No Questions on Nice to know and Desirable to know</p>	<ol style="list-style-type: none"> 1. Topic number 2a, / 2b./ 2c./ 2d./ 2e./ 2f. 2. Topic number 3a./ 3b./ 3c./ 3d. / 3f. / 3g. / 3e. 3. Topic number 4a./ 4d./ 4e./ 4f. / 4g. 4. Topic number 7a./ 7b./ 7d./ 7e. / 7f.

Rajiv Gandhi University of Health Sciences, Karnataka
1st Professional B.U.M.S. Degree Examination

Time: 3Hrs.

Max. Marks: 100

Kulliyat-e-Umoor-e-Tabiya

QP CODE: 2562

Your answers should be specific to the questions asked

Draw near labeled diagrams wherever necessary

In case of discrepancy in language the English language should followed

LONG ANSWER QUESTIONS: -

4X10=40

1) Define Arkan and write the concept of Arkan in Details?

(1) ارکان کی تعریف کرتے ہوئے نظریہ ارکان پر تفصیلی نوٹ لکھیے

2) Define the Mizaj, its types and write a detail note an important of mizaj in diagnosis of marz?

(2) مزاج کی تعریف اور اقسام بیان کرتے ہوئے مرض کی تشخیص میں اسکی اہمیت بیان کریں۔

3) Define the khilt, its types and write a details note an concept of Akhlat?

(3) خلط کی تعریف، اقسام بیان کرتے ہوئے نظریہ اخلاط پر تفصیلی نوٹ تحریر کریں۔

4) Write a detail note an Quwwat-e-Tanasilia and its types?

(4) قوت تناسلیہ اور اسکے اقسام پر تفصیلی نوٹ لکھیے۔

SHORT ANSWER QUESTIONS: -

8X5=40

5) Write a short note on Tabiyat and its importance.

(5) طبیعت کے تعریف کرتے ہوئے اسکی اہمیت بیان کریں۔

6) Explain the role of Anasir in maintaining the health?

(6) صحت کو برقرار رکھنے میں عناصر کے کردار کی وضاحت کریں

7) Write a short note on Diagnosis of Mizaj?

(7) تشخیص مزاج پر نوٹ لکھیے۔

8) Define Khilt-e-saida and its types.

(8) خلط سودا کی تعریف کرتے ہوئے اسکے اقسام بیان کریں۔

9) Describe the Aza'a and its types.

(9) اعضاء کی تعریف اور اسکے اقسام بیان کریں۔

10) Define the Tanqiya-e-Rooh and Tarwih-e-Rooh.

(10) تنقیہ روح اور ترویج روح پر نوٹ تحریر کریں۔

11) Define the Quwwat-e-Tabia and write a short note on Quwwat-e-Ghaziya.

(11) قوت طبیعہ کی تعریف کرتے ہوئے قوت غاذیہ پر مختصر نوٹ لکھیے۔

12) Write a short note on Afa'al.

(12) افعال پر نوٹ تحریر کریں۔

MULTIPLE CHOICE QUESTIONS: -

20X1=20

13 Anaximenes ne kis unsure ko awaaleen unsure qarar diya.....

- a) Paani
c) Aag
- b) Hawa
d) Mitti
- 14 Ilm e tibb ki bunyaad kis nazariye par hai
- a) Akhlat e arba
c) Kaifiyat e arba
- b) Anasir e arba
d) Anasir e kaseera
- 15 The other name of ustuqussat.....
- a) Anasir
c) Both of above
- b) Arkaan
d) None of above.
- 16 What is temperment of mousam e rabee.....
- a) Haar ratab
c) Haar yabis
- b) Baarid ratab
d) Moatadil
- 17 According to Ibn e sina kaha ke bashinde ziyzdah moatadil hote hien.....
- a) Qutub e shumaali
c) Khat e jiddi
- b) Khat e sartaan
d) Khat e istewa
- 18 Khoon ka mizaj kis unsure ke mizaj ke mutradif hai.....
- a) Hawa
c) Naar
- b) Paani
d) None of above
- 19 Tashkhees e mizaj ke liye ajnas e ashrah ka zikr kis ne kiya hai.....
- a) Zakriya razi
c) Ibne sina
- b) Ali ibne abbas majoosi
d) Abu sahal maseehi
- 20 Mizaj e moatadil tibbi bana hai.....
- a) Adal fil qismat se
c) Both of above
- b) Barabar taqseem se
d) None of above
- 21 Umr ke darjaat mien who kounsa darja hai jisme aza na barte hien aur na gharte hai.....
- a) Sinn e namu
c) Sinn e kahulat
- b) Sinn e waqoof
d) Sinn e shaikhukhat
- 22 The most moatadil part of our body.....
- a) Tip of the thumb
c) Skin of the palm
- b) Tip of the index finger
d) None of above
- 23 Sharaeen ugti hien qalb se ,vareedien ugti hien jigar se qayal kis ka hai....
- a) Buqraat
c) Ibn e sina
- b) Aflaatoon
d) Jalinoos
- 24 Umar ka inhesaar hai.....
- a) Mizaj par
c) Haraarat e ghareezia par
- b) Rutubat e ghareezia par
d) Quwwat e badan par
- 25 Baaritoon kis ki misaal hai.....
- a) Ghisha e rabaati ki
c) Ghisha e maai ki
- b) Ghisha e saffaqi ki
d) Ghisha e mufasil ki
- 26 Aza e haiwaniya mien shaamil hai.....
- a) Qalb
- b) Jigar

- c) Dimaag
d) None of above
- 27 Aza-e-Asliya kahte hain...
a) Aza-e-Murakkaba ko
b) Aza-e-Mifrada
c) Both of Above
d) None of above
- 28 Tendon ka shumar kin aza me hota hhai?
a) Aza-e-Berida
b) Aza-e-Yabla
c) Aza-e- Rateb
d) Aza-e-hor
- 29 Quwwat-e-mufakkira,Mutakhayyila, our Haafiz se Anjaam hota hai..
a) Taghzia
b) Tanzia
c) Hazim
d) None of above
- 30 Hazoom-e-Arba ke tahat hazme kabdi kounsa hazm hai?
a) First
b) Second
c) Third
d) Fourth
- 31 Amal-e-Taghzia me kaunsi quwwat pehle amal karti hai?
a) Quwwat-e-Masika
b) Quwwat-e-hazima
c) Quwwat-e-jaziba
d) Quwwat-e-dafiya
- 32 Quwwat-e-shouqia ke khadim quwwatien kounse hain
a) Shahwania aur ghazbiah
b) Muharrika aur mudarrika
c) Lamsa aur namia
d) None of above

SCHEME OF ASSESSMENT (FORMATIVE AND SUMMATIVE)

	PR OF SSIONAL COURSE	To pics for Assessment			Term Test To pics (E)
		First PA To pics (A- 1,2,3)	Second PA To pics (B-1,2,3)	Third PA To pics (C- 1,2,3)	
1.	First term (1-6months)	<p>1. Define ‘Ilm Ṭībb 2. Describe the Mawḍū‘ah (Subject) 3. Discuss Gha’raḍ-ah Ghāyat (Objective) of Ṭībb 4. LIST Aqsām Ṭībb Ma‘Amthāl (Classification of Ṭībb along with their examples) 5. Define Ṭībb Na’zri and its importance 6. Define Ṭībb ‘Amali and its application 7. LIST types of Asbāb-i-Wujūd Insāni 8. Discuss Asbāb-i-Wujūd Insāni 9. Define Asbāb Māddiyya significance and its relevance in present perspective 10. Define Asbāb Fā‘ila significance and its</p>	<p>1. Define Umūr Ṭabī‘iyya and their importance 2. LIST the Umūr Ṭabī‘iyya 3. Define Ṭabī‘at and its importance 4. Distinguish the concepts/understanding of Ṭabī‘at proposed by different Unani Scholars 5. LIST Āla Ṭabī‘at (Tools of physics) 6. Describe Mana‘at (Immunity) and Explain its Relevance with understanding of Ṭabī‘at 7. Explain the concept of Ḥarārat Gharīziyya 8. Explain the functions of Ḥarārat Gharīziyya in the body 9. Describe Ruṭbat Gharīziyya 10. Describe the association between Ruṭbat Gharīziyya and Ḥarārat Gharīziyya</p>	<p>1. Define Arkān/‘Anāṣir 2. Explain and demonstrate the concept of Arkān Arba‘a in detail 3. Define Kayfiyāt and Describe Kayfiyāt Arba‘a 4. LIST Arkān 5. Describe Nār (fire) as a constitutional element, its significance, and its natural position 6. Describe Hawā (air) as a constitutional element, its significance, and its natural position 7. Describe Mā’ (water) as a Constitutional element, its significance and its</p>	<p>1. Mubahis e aam, 2. Ilme Tibb, 3. Tabiyat, 4. Arkaan</p>

		<p>relevance in present perspective</p> <p>11. Define Asbāb Şūriyya, significance and its relevance in present perspective</p> <p>12. Define Asbāb Tamāmiyya</p>	<p>11. Define Ḥarārat Gharṭba and its effect on the body</p> <p>12. Explain the relationship between Ḥarārat Gharṭba and ‘Ufūnat</p>	<p>natural position</p> <p>8. Describe Arḍ (earth) as a constitutional element, its significance, and its natural position</p> <p>9. Describe the theorem of structural peculiarity of modern science to substantiate the building block of human body</p> <p>10. LIST the clinical orientation of ‘Anāşir in case of their excess and deficiency.</p>	
2.	Second Term (7-12 months)	<p>1. Define Mizāj/Kayfiyāt</p> <p>2. Explain the concept of Mizāj and its significance</p> <p>3. LIST the types of Mizāj</p> <p>4. Describe Mizāj Mu‘tadil Ḥaqqī</p> <p>5. Describe Mizāj Ghayr Mu‘tadil</p> <p>6. Define ‘Adfi’l Qisma</p> <p>7. Define Mizāj Mu‘tadil Ṭibbī</p> <p>8. LIST Mizāj Mu‘tadil Ṭibbī</p> <p>9. Define Mizāj Mu‘tadil Naw‘ibi’l Qiyāsila’l Khārij with</p>	<p>1. Define Akhlāt</p> <p>2. Explain different theories in respect of production of Akhlāt</p> <p>3. LIST the types of Akhlāt</p> <p>4. Explain the Tawlīd Akhlāt in details</p> <p>5. Describe Ruṭūbat Ūlā and their classification</p> <p>6. Describe Ruṭūbat Thāniya and their classification</p> <p>7. Describe Dam and its constitution al hierarchy along with arguments</p> <p>8. LIST types of Dam</p>	<p>1. Describe A‘dā’ (Organs)</p> <p>2. Classify A‘dā’ (Organs)</p> <p>3. Define A‘dā’ Mufrada (Simple Organs)</p> <p>4. Classify the A‘dā’ Mufrada</p> <p>5. LIST the A‘dā’ Mufrada and their structure and functions</p> <p>6. Explain The genesis of A‘dā’ Mufrada and controversy amongst different group of</p>	<p>1. Mizaj, 2. Akhlaat, 3. Aaza</p>

		<p>example</p> <p>10. Define Mizāj Mu‘tadil Naw‘ībi’lQiyāsila’l Dākhil with example</p> <p>11. Define Mizāj Mu‘tadil Şinfībi’lQiyāsila’lKhārij with example</p> <p>12. Define Mizāj Mu‘tadil Şinfībi’lQiyāsila’lDākhil with example</p> <p>13. LIST the types of Mizāj Ghayr Mu‘tadil</p> <p>14. Identify the A‘dā’ Mu‘tadila along with their constitutional hierarchy and its justification</p> <p>15. Identify the A‘dā’ Hārra along with constitutional hierarchy and its justification</p> <p>16. Identify the A‘dā’ Bārīda along with constitutional hierarchy and its justification</p> <p>17. Identify the A‘dā’ Yābīsa along with constitutional hierarchy and its justification</p> <p>18. Identify the A‘dā’ Raṭba along with constitutional hierarchy and its justification</p> <p>19. Appraise the Mizāj Insānī (human constitution) based</p>	<p>9. Discuss Ṭabī‘ī Dam and its characteristics</p> <p>10. Discuss Ghayr Ṭabī‘ī Dam and its classification</p> <p>11. Discuss and LIST Amrāḍ Damwiyya</p> <p>12. Define Balgham and its constitutional hierarchy along with arguments and its benefits</p> <p>13. LIST the types of Balgham</p> <p>14. Define Ṭabī‘ī Balgham, its characteristics and necessities</p> <p>15. Define Balgham Ghayr Ṭabī‘ī</p> <p>16. LIST the types of Balgham Ghayr Ṭabī‘ī based on taste</p> <p>17. LIST the types of Balgham Ghayr Ṭabī‘ī based on consistency</p> <p>18. LIST the types of Balgham Ghayr Ṭabī‘ī based on Rāyeḥa (odor)</p> <p>19. Classify Amrāḍ Balghamiyya</p> <p>20. Define Şafrā’, its constitution al hierarchy along with arguments and its benefits</p> <p>21. LIST the types of Şafrā’</p> <p>22. Define Şafrā’ Ṭabī‘ī, its characteristics and significance</p>	<p>physicians</p> <p>7. Justify the reason for inclusion of Sha‘r (Hair), Zufr (Nail) and Mukhkh (Marrow) in A‘dā’ Mufrada</p> <p>8. Define A‘dā’ Murakkaba (Compound Organs) with their classification</p> <p>9. Define A‘dā’ Ra’īsa (Vital Organs) and their classification</p> <p>10. Define A‘dā’ Khādima (Subordinate Organs)</p> <p>11. Explain the concept of ‘Uḍw Mu‘ṭī (Donor Organ)</p> <p>12. Explain the concept of ‘Uḍw Qābil (Recipient Organ)</p>	
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		<p>onAjnās‘Ashara20.Clas sifytheAmzijaAsnān (constitution of different stages) 21.Explain Sinn-i- Numū22.Explain Sinn-i- Shabāb23.Explain Sinn-i- Kuhūlat24.Explain Sinn-i- Shaykhūkhat 25.Explain the necessity and significance of Mizāj Ajnās26.Describe different doctrines in respect of Mizāj Iqlīm27.Identify equable temperament of Iqlīm with Argument 28. Explain the importance of Mizāj in diagnosis of diseases 29. Describe the importance of Mizāj in Tashkhīṣ30.Explain the importance of Mizāj in prescribing medicines</p>	<p>23. Describe Ṣafrā’ Ghayr Ṭabī’ī along with its classification24. LIST the AmrādṢafrāwiyya25. Define Sawdā’, its and benefits 26. LIST the types of Sawdā’ 27. Define Sawdā’ Ṭabī’ī, its characteristics and significance 28. Describe Sawdā’ Ghayr Ṭabī’ī along with its classification29. LIST the AmrādSawdāwiyya 30. Justify the Arb’iat Akhlāt based on arguments</p>		
3.	Third Term (13-18months)	1. Define Arwāḥ and their classification	1. Describe Ḥawās Khamsa Bāṭ in a (Intellectual Senses)	1. Describe Quwwat Ḥaywāni y Vital Faculties) 2. Describe Quwwat Fā’ila	1. Arwah ,2. Quwa, 3. Afaal.

		<p>2. Describe the Concept of Arwāḥ (Pneuma) according to different Unani Scholars</p> <p>3. Classify the functions of Arwāḥ and their Masālik (channels)</p> <p>4. Discuss in brief Tanqiya and Tarwḥ.</p> <p>5. Analyze the concentration of Rūḥ in different Organs</p> <p>6. Define Quwā (Powers or Faculties) with their classification</p> <p>7. Describe Quwā Nafsāniyya (Psychic or Mental Faculty) in brief</p> <p>8. Discuss Quwwat Muḥarrika (Motor Faculty)</p> <p>9. Discuss A‘rād Quwwat Muḥarrika (Motor Faculty)</p> <p>10. Discuss Quwwat Mudrika (Faculty of Perception)</p> <p>11. Discuss Ḥawās Khamṣa Zāhira (Five Special Senses)</p> <p>12. Describe Quwwat Bāṣira (Power of Vision)</p>	<p>2. LIST A‘rād Ḥawās Khamṣa Bāṣira</p> <p>3. Describe Ḥiss Mushtarak (Power of Composite Senses)</p> <p>4. Describe Quwwat Mutakhayyila (power of reasoning and imagination)</p> <p>5. Describe Quwwat Ḥafiza (Power of Memory)</p> <p>6. Describe Quwwat Mutaṣarifa (Power of modification)</p> <p>7. Describe Quwwat Wāhima (Power of apprehension)</p>	<p>and Munfa‘ila Ḥaywāniyya</p> <p>3. Discuss the advantages of Inqibād Qalb and Inbisāt Qalb (Systolic and Diastolic movements of the Heart)</p> <p>4. LIST A‘rād Quwwat Ḥaywāniyya</p> <p>5. Define and Classify Quwwat tabī‘iyya (Physical Power)</p> <p>6. Define and Explain the functions of Quwwat Ghādhiya</p> <p>7. Define and Explain the functions of Quwwat Nāmiya (Power of Growth)</p> <p>8. Describe Sharā‘iṭ -i- Taghdiya (Conditions of nutrition) in detail</p> <p>9. Explain the Functional stages of Quwwat Ghādhiya At organ level</p> <p>10. Explain the functions of Quwwat Mughayyira (Power of transformation)</p> <p>11. Define and Explain the functions of Quwwat Muwallida (Generative Power)</p> <p>12. Define and Explain</p>	
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				the functions of Quwwat Muş	
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	<p>13. Describe QuwwatSāmi‘a (Power of Hearing)</p> <p>14. LIST A‘rādQuwwatSāmi‘a (Power of Hearing)</p> <p>15. Describe QuwwatShāmma (Power of Smell)</p> <p>16. LIST A‘rādQuwwatShāmma</p> <p>17. Describe Quwwat Dhā‘iqa (Power of Taste)</p> <p>18.18. LIST A‘rādQuwwatDhā‘iqa</p> <p>19. Describe QuwwatLāmisa (Power of Tactile Sensation)</p>		<p>awwira (Molding Power)</p> <p>13. Describe TaghayyurātGhidhā’ (Metabolism of Nutrients) in detail</p> <p>14. Explain the functions of QuwwatJādhiba, Māsika,</p>	
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**Calculation of
Internal
assessment**

TERM	PERIODICAL ASSESSMENT				TERMTEST	TERM ASSESSMENT	
	A	B	C	D	E	F	G
	1 (20)	2 (20)	3 (20)	Average (A+B+C/3) 20	Term Test (MCQ+SAQ+LAQ) And Practical (Maximum20)	Sub Total	Term Assessment
FIRST						D+E	D+E/2
SECOND						D+E	D+E/2
THIRD					NIL	D	D
Final IA	Average of Three Term Assessment Marks as Shown in 'G' Column						

TOPICS FOR NON-LECTURE TEACHING-LEARNING METHODS

S.NO	TOPIC
1	MUBAHIS AAM
2	ARKAN
3	MIZAJ
4	AKHLAT
5	AAZA
6	ARWAH
7	QUWA
8	AFAAL

CHECK LIST FOR PERIODIC ASSESSMENT

S.NO	TOPIC	CHECKLIST
1	PRACTICAL	<ul style="list-style-type: none">➤ Identification of Aza-e-mufarada➤ Demonstration of Akhlat➤ Correlation with physiological parameters
2	OPEN BOOK TEST	<ul style="list-style-type: none">➤ Conducting Bi-weekly test
3	SUMMERY WRITING	<ul style="list-style-type: none">➤ Charts preparation➤ Summary of every topic according to curriculum
4	WORK BOOK MAINTENANCE	<ul style="list-style-type: none">➤ Timely submission of workbook➤ Draw and labeling of neat diagram➤ Answer the questions given in the workbook
5	SMALL PROJECTS	<ul style="list-style-type: none">➤ Innovative➤ Model preparation➤ Power point presentation

Distribution of Non-Lecture Teaching Learning Methods

S.NO	NON-LECTURE TEACHING LEARNING METHODS	TOTAL NUMBER OF ACTIVITIES	TOPIC							
			MUBAHIS AAM	A R K A N	M I Z A J	A K H L A T	A ' D A H	A R W A H	Q U W A	A F A L
1	GROUP DISCUSSION	21	3	3	3	3	2	3	3	1
2	SEMINAR/WORKSHOP	27	3	3	4	4	3	3	5	2
3	TUTORIAL	16	2	2	3	3	2	1	2	1
4	PROBLEM BASED LEARNING	12	1	1	2	3	1	1	2	1
5	SELF-DIRECTED LEARNING	03	-	-	1	1	-	-	1	-
6	AUDIO-VISUAL DEMONSTRATION	02	-	-	1	1	-	-	-	-
7	INTEGRATED TEACHING	17	1	2	4	4	1	1	3	1
8	JIGSAW ACTIVITY	08	-	1	2	2	1	-	2	-
9	OPEN BOOK DISCUSSION/OPEN BOOK TEST	15	1	2	3	3	2	1	2	1
10	QUIZ/PUZZLE	06	-	1	1	1	1	-	2	-
11	SCHEMATIC DIAGRAM	13	1	1	2	1	4	1	2	1

For Teaching Program

Model non-lecture teaching-learning activity

Sl. No	Teaching-learning activity	Topic	Content in the Topic	Assessment Tool
1.	Seminar	Mizaj	<ul style="list-style-type: none"> • Introduction of Mizaj • Definition of Mizaj • Classification of Mizaj • Importance of Mizaj in maintenance of health • Importance of Mizaj in diagnosis of disease 	PPT presentation
2	Small group discussion	Akhlat	<ul style="list-style-type: none"> • Concept of Akhlat • Concept of Akhlat according to ancient Unani physicians • Temperament of Akhlat • Properties of Akhlat • Importance of Akhlat in maintaining health • Classification of Akhlat qualitatively and quantitatively 	PPT presentation
3	Guest lecture	Quwa Correlative study On Tabiyat and Immunity	<ul style="list-style-type: none"> • Detailed explanation of concept 	Demonstration

ರಾಜೀವ್ ಗಾಂಧಿ ಆರೋಗ್ಯ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಕರ್ನಾಟಕ

Rajiv Gandhi University of Health Sciences.



KULLIYAT UMOORE TABIYA

SUBJECT CODE: UNIUG-KUT

BASIC PRINCIPLES OF UNANI MEDICINE

(Applicable from 2021-2022 batch onwards for five years)

COURSE CURRICULUM FOR FIRST PROFESSIONAL

(BUMS PRESCRIBED BY NCISM)

I professional BUMS

Subject Code: UNIUG-KUT

Kulliyat Umoore Tabiya

KEY POINTS

Total number of Teaching hours: 210			
Lecture hours (LH) - Theory		70 Hours	70 Hours (LH)
Paper I	70 Hours		
Non-Lecture hours (NLH) – Theory		42 Hours	140 Hours (NLH)
Paper I	42 Hours		
Non-Lecture hours (NLH) - Practical		98 Hours	

Examination (Papers & Mark Distribution)					
Item	Theory Component Marks	Practical Component Marks			
		Practical	Viva	Elective	IA
Paper I	100	100	20	10	20
Sub-Total	100	150			
Total marks	250				

Preface

Kulliyat Umoore Ṭabiya is a fundamental subject which provides the basis for the study of Unani medicine as it deals with the governing principles of this medicine. These principles distinguish Unani medicine from other systems of medicine. This subject starts with the description of the existence of beings for which seven *Umoor* (factors) are considered essential viz. *Arkaan, Mizaj, Akhlat, Aaza, Arwah, Quwa* and *Afaal*. Further, it discusses bio- mineral diversity and structural-functional relationship. The students will also learn about the genesis and functions of human organs and their maintenance discussed under the concept of humours and *Tabiat*. One of the important topics included in this subject is the cause-and-effect relationship between various biological functions and environment. At last normal body functions are described as indicators of both health and disease.

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First BUMS

Course Code and Name of Course

	Course code	Name of Course
	UNIUG-KUT	Kulliyat Umoore Ṭabiya (Basic Principles of Unani Medicine)

Table 1- Course outcomes and matched Program outcomes

SRI CO No	A1 Course Outcome (CO) UNIUG-KUT At the end of the course UNIUG-KUT, the student should be able to-	B1 Course Outcome matched with program outcomes.
1	Elucidate طب (<i>Ṭibb</i>) as “the branch of knowledge in which the functions and properties of human body are studied in order to preserve the health and cure the disease with respect to اسباب وجود (<i>Asbāb-i-Wujūd</i>).	PO1
2	Understand and describe the role of طبيعت (<i>Ṭabī‘at</i>), with its extended dimensions and capabilities.	PO1
3	Discuss and demonstrate the concept of ارکان (<i>Arkān</i>) leading towards the formation of مواليدِ ثلاثه (<i>Mawalīd-i-Thalātha</i>).	PO1, PO2, PO3
4	Understand and evince the concept of مزاج (<i>Mizāj</i>), and its clinical application.	PO1, PO2, PO3
5	Comprehend and demonstrate the concept of اخلاط (<i>Akhlāt</i>) and its importance with respect to the diagnosis and treatment.	PO1, PO2, PO3
6	Describe and demonstrate the course of the اعضاء (<i>A‘dā’</i>) with respect to their origin, formation, distinction and functions.	PO1, PO2, PO3
7	Interpret the concept of ارواح (<i>Arwāh</i>) and their role in maintenance of health along with evidence based dynamism of حرارتِ غريزيه (<i>Harārat Gharīziyya</i>) [the chief common tool for all قوى (<i>Quwā</i>)].	PO1

8	Explain the concept of قو ی (Quwā) and افعال (Af'al) with their classifications.	PO1
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Table 2: Contents of Kulliyat Umoore Tabiya - (Theory)

	A2 List of Topics UNIUG-KUT	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours
1	مبحث عام (Mabhas-i-Āam)	I	10	5	7
	<p>تی : موضوع، غرض و غا علم طب</p> <p>اور اقسام (Ilm Ṭibb, Mawḍū, Gha'raḍ-o-ghāyat and its types)</p> <p>a) اسباب وجود انی مع اقسام (Asbāb-i-Wujūd Insani and its classification)</p> <p>b) : اہمیت اور اقسام عی امور طب (Umūr Ṭabī'iyya, importance and classification)</p> <p>c) طبیعت: تفہیم، اہمیت، آلات اور مناسبت سے اس کا تعلق (Ṭabī'at: understanding, importance, tools and its relation with immunity)</p> <p>حرارت غریزی : تصور، تفہیم، افعال ،</p> <p>d) رطوبت غریزی ، حرارت غریبہ اور غریزی (Harārat Gharīziyya; concept, understandings, functions, Ruṭūbat Gharīziyya, Ḥarārat Gharība and Ufūnat)</p>				
2	عنصر / ارکان (Arkān/ 'Anāṣir)	I	10	5	4

	<p>ارکان/عناصر (<i>Arkān/ 'Anāṣir</i>)</p> <p>تص</p> <p>a) ارکانِ اربعہ کا تصور (concept of <i>Arkān Arba 'a</i>)</p> <p>تک</p> <p>b) ما بین فرق (difference between ارکان، عناصر اور اس طق س ا)</p> <p>(<i>Arkān, 'Anāṣir and Ustuqussāt</i>)</p> <p>c) کیفیات اربعہ (<i>Kaifiyāt Arba 'a</i>)</p> <p>d) ارکان کی اقسام (Types of <i>Arkān</i>)</p> <p>e) توضیح دید ج عناصر ان نیہ کی (Theorem of structural peculiarity of modern science)</p> <p>f) عناصر کی اطلاقی حیثیت (Clinical application of <i>'Anāṣir</i> in case of their excess and deficiency)</p>				
3	مزاج / کیفیت (<i>Mizāj/ Kaifiyāt</i>)	II	20	15	8

	<p>a) مزاج : تعريف، توضيح، اهميت اور اقسام (Mizāj: Definition, explanation, significance and types)</p> <p>b) مزاج معتدل (Mizāj Mu‘tadil)</p> <p>c) مزاج معتدل طبي (Mizāj Mu‘tadil Ṭibbī)</p> <p>d) غير معتدل ج مزاج (Mizāj Ghayr Mu‘tadil)</p> <p>e) اء ض جه اع زم ا (Amjiza A‘dā’)</p> <p>f) سعشره (Mizāj Insānī and Ajnās‘Ashara)</p> <p>g) مزجه اسنان ا (Amzija Asnān)</p> <p>h) ج اجناس مزاج (Mizāj Ajnās)</p> <p>i) مزاج اقليم (Mizāj Iqlīm)</p> <p>ج مزاج (Mizāj Iqlīm)</p> <p>ز ص مرض اور ي شخ ت (Tashkhīṣ-i-Maraḍ and Mizāj)</p> <p>k) تجو ي زغذ ا ، دو اء به اعتبار مز (Recommendation of diets, drugs on the basis of Mizāj)</p>				
4	اخلاط (Akhlāt)	II	15	15	6

	<p>اخلاط : تعريف، (اص) ت</p> <p>(<i>Akhlāṭ: definition, concept and understanding and types</i>)</p> <p>ليو ي او ت رطو b)</p> <p>(<i>Ruṭūbat Uoola and Thāniya</i>)</p> <p>ا هميت، ا</p> <p>(<i>Khilṭ</i>) خلط دم : تعريف و توضيح مع دلائل، ا</p> <p>قسام اور اطلاق حيثيت c)</p> <p>(<i>Dam: definition, explanation, importance, types and application</i>)</p> <p>ا هميت، ا</p> <p>(<i>Khilṭ</i>) خلط بلغم: تعريف و توضيح مع دلائل، ا</p> <p>قسام اور اطلاق حيثيت d)</p> <p>(<i>Balgham: definition, explanation, importance, types and application</i>)</p> <p>ا هميت، ا</p> <p>(<i>Khilṭ</i>) خلط صفراء: تعريف و توضيح مع دلائل، ا</p> <p>قسام اور اطلاق حيثيت e)</p> <p>(<i>Şafra: definition, explanation, importance, types and application</i>)</p> <p>ا هميت، ا</p> <p>(<i>Khilṭ</i>) خلط سوداء: تعريف و توضيح مع دلائل، ا</p> <p>قسام اور اطلاق حيثيت f)</p>				
	<p>(<i>Sawdā: definition, explanation, importance, types and application</i>)</p> <p>g) اربعيت اخلاط ك دلائل (<i>Justification of Arb'iat Akhlāṭ</i>)</p>				
5	(<i>A'ḍā'</i>) اع ضاء	II	10	5	4

	<p>a) اعضاء کی توضیح اور اقسام (A 'dā': Description and their classification)</p> <p>ب) اعضاء مفردہ کی تعریف، اقسام اور عدد اع ضا ع میں اطباء کیا راء (b) (Definition of A 'dā' Mufrada, classification, opinion of different physicians)</p> <p>ج) اعضاء مرکبہ کی تعریف اور اقسام (Definition of A 'dā' Murakkaba with their classification)</p> <p>د) اعضاء رائسہ (A 'dā' Ra'īsa)</p> <p>ه) اعضاء خادمہ (A 'dā' Khādima)</p> <p>ف) اعضاء معطی و عضو قا (Uḍw Mu'ī and Uḍw Qābil)</p>				
6	ارواح (Arwāḥ)	III	10	5	3
	<p>a) ارواح کی تعریف اور اقسام ارواح (Definition of Arwāḥ and their classification)</p> <p>ب) اطباء حکا کینظر میں رو (Concept of Rūḥ according to different Unani Scholars) ص</p> <p>ج) وظائف روح اور مسالک (Functions of Arwāḥ and their Masālik) ت</p> <p>د) ویح زی اور تی قی ت (Tanqiya and Tarwīḥ)</p> <p>ه) ارواح کا ارتکاز مختلف اعضاء میں (Concentration of Rūḥ in different organs)</p>				
7	قوی (Quwā)	III	20	15	9
	<p>a) قوی کی تعریف اور اقسام اور وظائف ص (Definition of Quwā with their classification and functions)</p>				

	<p>ظا ی نفسانیہ : تعریف معاقسام، و ب) عوارضات (<i>Quwā</i> <i>Nafsāniyya</i>: definition, classification, functions and complications) ص</p> <p>ظا ی حیوانیہ : تعریف معاقسام، و ب) عوارضات (<i>Quwā</i> <i>Haywāniyya</i>: definition, classification, functions and complications)</p> <p>د) قوی طبیعیہ : تعریف معاقسام و وظا ص ی (<i>Quwā</i> <i>Ṭabī'iyya</i>: definition, classification and functions)</p> <p>ه) قوی تناسلی ہ : تعریف اقسام و عوارضات (<i>Quwā</i> <i>Tanāsuliyya</i>: definition, classification, and complications)</p> <p>ی بحیثیتقو کیتقسیم ل افعا f) (Classification of the <i>Af'āl</i> (Functions) according to <i>Quwā</i>)</p> <p>طبیعت کا کردار (Association) قوی میں تہمی اشتراک اور g) amongst <i>Quwā</i> and the role of <i>Ṭabī'at</i>)</p>				
8	افعال (<i>Af'āl</i>)	III	5	5	1
	<p>a) لکی تعریف اور اقسام افعا (Definition and classification of <i>Af'āl</i>)</p> <p>b) فعلمفرد (<i>Fi'l Mufrad</i>)</p> <p>c) فعلمرکب (<i>Fi'l Murakkab</i>)</p> <p>d) اعراضافعال (<i>A'rād Af'āl</i>)</p>				
Total				70	42

ص

Note: *Arkān/ 'Anāšir* (f) the theory of *Arkān* has been proposed for origin of life and existence of the body. Concurrently element theory in modern chemistry failed to express both. So, these cannot be considered equivalently since their contexts of expression are different. This topic would help student in comprehension of cellular structure and its components equivalently to whole body. In the similar way student can comprehend the involvement of *Arkān* as Building blockers.

Table 2: Contents of Kulliyat Umoore Tabiya - (Practical)

	A2 List of Topics UNIUG-KUT	B2 Term	C2 Marks	D2 Lecture hours	E2 Non-Lecture hours
1	<p>ارکان (<i>Arkān</i>)</p> <p>i. طبعی مقام نکا ارکا (Natural position of <i>Arkān</i>)</p> <p>مدد ارکان کی تقسیم دور ی جدول کی سے (Classification of elements with the help of Periodic Table)</p> <p>سchematic representation of '<i>Anāšir Insāniyya</i>) کی پیشکش</p>	I	20		12
2	<p>مزاج (<i>Mizāj</i>)</p> <p>(Evaluation of اجنا س عشرہ پر مبنی سوالات سے مزاج ان نی کی تعی <i>Mizāj Insānī</i> by questionnaire based on <i>Ajnās 'Ashara</i>)</p> <p>(Demonstration of گلوب اور گراف کی مدد سے اقلیم کی توضیح of <i>Iqlīm</i> by globe and graph)</p>	II	20		23
3	<p>اخلاط (<i>Akhlāt</i>)</p> <p>i. اخلاط ار (Demonstration of <i>Akhlāt Arba 'a</i>) غلبہ اخلا ط کیتعین (Evaluation of <i>Ghalaba-i- Akhlāt</i>)</p>	II	20		25

4	(A 'dā' اء ضاء) تجزیہ (Assessment of A 'dā' i. (Functions of different organs) مختلف اء ضاء كے افعال (Mufrada wa A 'dā' Murakkaba)	II	8		12
5	ارواح (Arwāḥ) i) (Classification of Arwāḥ) ارواح كی تقسیم	III	8		7
6	(Quwā) ی قو i. (Classification of Quwā) قوت ii. (Illustration of Quwwat Bāṣira) صر ه كیتشریح iii. (Illustration of Quwwat Sāmi'a) قوت سامعه كیتشریح	III	20		15

	iv. (Illustration of Kayfiyāt Arba'a) کیفیات اربعه كی تشریح v. (Illustration of Ḥawās Khamsa Bāṭina) طی ه سخمسه ث حوا vi. (Illustration of Ḥiss Mushtarak) حسمشتر كکی تشریح vii. (Illustration of Quwwat Wāhima) قوت وا بمهکی تشریح viii. (Illustration of Quwwat Ḥāfiẓa) كیتشریح قوت حافظه				
7	افعال (Af'āl) i. (Classification of Af'āl) افعال كی تقسیم ii. (Functions of different organs) ضاء اء ص ظا و	III	4		4
Total					98

Table 3: Learning objectives of Kulliyat Umoore Tabiya UNIUG-KUT (Theory)

A3 Course outcome	B3 Learning Objective (At the end of the session, the Students should be able to)	C3 Domain/Sub	D3 Must to know/desi rable to know/Nic e to know	E3 Level Does/show s/ Knows how/ Knows	F3 T-L method	G3 Assessment	H3 Format ive /summ ative	I3 Term	J3 Integr ation
Topic 1- (Mabhas-i-'Ām (General discussion) (Lecture:- 5 hours, Non lecture 7 hours)									
a. 'Ilm Ṭibb' Mawḍū, Gha'raḍ-o Ghāyat and its types									
CO1	Define 'Ilm Ṭibb	Cognitive/ comprehensi on	MK	Knows	Lecture	Written/ viva/open book test/project work	F&S	I	
CO1	Describe the Mawḍū (Subject)	Cognitive/ comprehensi on	MK	Knows	Lecture	Written/viv a/ open book test/project work	F&S	I	
CO1	Discuss Gha'raḍ-o Ghāyat (Objective) of Ṭibb	Cognitive/ comprehensi on	MK	Knows	Lecture	Written/viv a/ open book test/project work	F&S	I	

CO1	Enlist <i>Aqsām Ṭibb Ma' Amthāl</i> (Classification of <i>Ṭibb</i> along with their examples)	Cognitive/comprehension	MK	Knows	Lecture/Tutorial	Written/viva/ open book test/project	F&S	I	
						work			
CO1	Define <i>Ṭibb Na'zri</i> and its importance	Cognitive/comprehension	MK	Knows	Lecture/seminar/workshop	Written/viva/ assignment	F&S	I	
CO1	Define <i>Ṭibb 'Amali</i> and its application	Cognitive/recall	MK	Knows how	Lecture	Written/viva	F&S	I	
	<i>b. Asbāb-i- Wujūd Insāni</i> and its classification								
CO1	Enlist types of <i>Asbāb-i- Wujūd Insāni</i>	Cognitive/comprehension	MK	Knows	Lecture	Written/viva /open book test/project work	F&S	I	
CO1	Discuss <i>Asbāb-i-Wujūd Insāni</i>	Cognitive/comprehension	MK	Knows	Lecture/seminar/workshop	Written/viva	F&S	I	
CO1	Define <i>Asbāb Māddiyya</i> significance and its relevance in present perspective	Cognitive/comprehension	MK	Knows	Lecture/tutorial	Written/viva/ open book test/project work	F&S	I	

CO1	Define <i>Asbāb Fā‘ila</i> significance and its relevance in present perspective	Cognitive/ comprehension	DK	Knows	Lecture/ seminar/ workshop	Written /viva/ open book test/project work	F&S	I	
CO1	Define <i>Asbāb Šūriyya</i> , significance and its relevance in present perspective	Cognitive/ comprehension	DK	Knows	Lecture/ seminar/ workshop	Written/ open book test/project work	F&S	I	
CO1	Define <i>Asbāb Tamāmiyya</i>	Cognitive/comprehension	DK	Knows	Lecture	Written /viva	F&S	I	
c. Umūr Ṭabī‘iyya, importance and classification									
CO1	Define <i>Umūr Ṭabī‘iyya</i> and their importance	Cognitive / comprehension	MK	Knows	Lecture/ Tutorial	Written /viva/assignment	F&S	I	
CO2	Enlist the <i>Umūr Ṭabī‘iyya</i>	Cognitive / comprehension	MK	Knows	Lecture	Written /viva	F&S	I	
d. Ṭabī‘at: understanding, importance, tools, and immunity									
CO2	Define <i>Ṭabī‘at</i> and its importance	Cognitive / comprehension	MK	Knows	Lecture/ seminar/ workshop	Written/ viva/ open book test/project work	F&S	I	

CO2	Distinguish the concepts/understanding of <i>Ṭabī'at</i> proposed by different Unani Scholars	Cognitive / comprehension	MK	Knows	Lecture/ Jigsaw activity	Written /viva/ open book test/project work	F&S	I	
CO2	Enlist <i>Āla Ṭabī'at</i> (Tools of physis)	Cognitive and recall	MK	Knows	Lecture	Written/viva	F&S	I	
CO2	Describe <i>Mana 'at</i> (Immunity) and explain its relevance with understanding of <i>Ṭabī'at</i>	Cognitive/ comprehension	MK	Knows	Lecture	Written/ open book test/project	F&S	I	

						work			
<i>e. Ḥarārat Gharīziyya; concept, understandings, functions, Ruṭūbat Gharīziyya, Ḥarārat Gharība and Ufūnat</i>									
CO7	Explain the concept of <i>Ḥarārat Gharīziyya</i>	Cognitive/ comprehension	MK	Knows	Lecture/ group discussion	Written/ open book test/project work	F&S	I	
CO7	Explain the functions of <i>Ḥarārat Gharīziyya</i> in the body	Cognitive/ comprehension	DK	Knows	Lecture/ group discussion	Written/ Quiz/ Puzzle	F&S	I	
CO7	Describe <i>Ruṭūbat Gharīziyya</i>	Cognitive/ comprehension	MK	Knows	Lecture	Written/Assignment	F&S	I	
CO7	Describe the association between <i>Ruṭūbat Gharīziyya</i> and <i>Ḥarārat Gharīziyya</i>	Cognitive/ comprehension	DK	Knows	Lecture	Written/ open book test/project work	F&S	I	

CO7	Define <i>Ḥarārat Gharība</i> and its effect on the body	Cognitive/comprehension	DK	Knows	Lecture/group discussion	Written	F&S	I	
CO7	Explain the relationship between <i>Ḥarārat Gharība</i> and <i>‘Ufūnat</i>	Cognitive comprehension	NK	Knows	Lecture/group discussion	Written/Assignment	F	I	
Topic 2- (Arkān/ ‘Anāşir) (Lecture:- 5 hours, Non lecture 4 hours)									
a) Arkān/ ‘Anāşir									
CO3	Define <i>Arkān/ ‘Anāşir</i>	Cognitive comprehension	MK	Knows	Lecture	Written/viva	F&S	I	
		on							
b. (Concept of Arkān Arba‘a)									
CO3	Explain and demonstrate the concept of <i>Arkān Arba‘a</i> in detail	Cognitive/comprehension	MK	Knows	Lecture/group discussion	Written/open book test/project work	F&S	I	
c. Arkān, ‘Anāşir and Uştuqussāţ									
CO3	Distinguish/ differentiate between the term of <i>Arkān, ‘Anāşir</i> and <i>Uştuqussāţ</i>	Cognitive/Analysis	MK	Knows	Lecture	Written/viva/ Quiz/ Puzzle	F&S	I	
d. Kayfiyāt Arba‘a									

CO3	Define <i>Kayfiyāt</i> and describe <i>Kayfiyāt Arba ‘a</i>	Cognitive/Analysis	MK	MK	Lecture/tutorial	Written /viva	F&S	I	
e. Types of <i>Arkān</i>									
CO3	Enlist <i>Arkān</i>	Cognitive comprehension	MK	Knows	Lecture	Written /viva/assignment	F&S	I	
CO3	Describe <i>Nār</i> (fire) as a constitutional element, its significance, and its natural position	Cognitive/comprehension	MK	Knows	Lecture/seminar/workshop	Written/open book test/project work	F&S	I	
CO3	Describe <i>Hawā</i> (air) as a constitutional element, its significance, and its natural position	Cognitive comprehension	MK	Knows	Lecture/seminar/workshop	Written open book test/project work /	F&S	I	
CO3	Describe <i>Mā’</i> (water) as a constitutional element, its significance and its natural position	Cognitive/comprehension	MK	Knows	Lecture/seminar/workshop	Written open book test/project work /	F&S	I	
CO3	Describe <i>Arḍ</i> (earth) as a constitutional element, its significance, and its natural position	Cognitive /comprehension	MK	Knows	Lecture/seminar/workshop	Written/open book test/project work	F&S	I	
f. Theorem of structural peculiarity of modern science									

CO3	Describe the theorem of structural peculiarity of modern science to substantiate the building block of human body	Cognitive/ comprehension	MK	Knows	Lecture/ Jigsaw activity	Written/ open book test/project work	F&S	I	
g. Clinical orientation of 'Anāṣir in case of their excess and deficiency									
CO3	Enlist the clinical orientation of 'Anāṣir in case of their excess and deficiency	Cognitive comprehension	DK	Knows	Lecture/self -directed learning	Written/assignment	F&S	I	
Topic 3 - (Mizāj/ Kayfiyāt) (Lecture:- 15 hours, Non lecture 8 hours)									
a. Mizāj: Definition, explanation, significance, and types									
CO4	Define <i>Mizāj/ Kayfiyāt</i>	Cognitive/ comprehension	MK	Knows	Lecture	Written /viva	F&S	II	
CO4	Explain the concept of <i>Mizāj</i> and its significance	Cognitive/ comprehension	MK	Knows	Lecture/ seminar/ workshop	Written/ open book test/project work	F&S	II	
CO4	Enlist the types of <i>Mizāj</i>	Cognitive/ comprehension	MK	Knows	Lecture	Written /viva/ Quiz/ Puzzle	F&S	II	
b. Mizāj Mu'tadil									
CO4	Describe <i>Mizāj Mu'tadil Ḥaqqīqī</i>	Cognitive/comprehension	MK	Knows	Lecture	Written	F&S	II	

CO4	Describe <i>Mizāj Ghayr Mu‘tadil</i>	Cognitive/co mprehension	MK	Knows	Lecture	Written	F&S	II	
CO4	Define <i>‘Adl fi’l Qisma</i>	Cognitive/co mprehension	MK	Knows	Lecture	Written /viva	F&S	II	
<i>c. Mizāj Mu‘tadil Ṭibbī</i>									
CO4	Define <i>Mizāj Mu‘tadil Ṭibbī</i>	Cognitive/co mprehension	MK	Knows	Lecture	Written /viva	F&S	II	
CO4	Enlist <i>Mizāj Mu‘tadil Ṭibbī</i>	Cognitive/co mprehension	MK	Knows	Lecture	Written /viva	F&S	II	
CO4	Define <i>Mizāj Mu‘tadil Naw‘ī bi’l Qiyās ila’l Khārij</i> with example	Cognitive/co mprehension	DK	Knows	Lecture	Written /viva	F&S	II	
CO4	Define <i>Mizāj Mu‘tadil Naw‘ī bi’l Qiyās ila’l Dākhil</i> with example	Cognitive/co mprehension	DK	Knows	Lecture	Written /viva	F&S	II	
CO4	Define <i>Mizāj Mu‘tadil Ṣinft bi’l Qiyās ila’l Khārij</i> with example	Cognitive/co mprehension	DK	Knows	Lecture	Written /viva	F&S	II	
CO4	Define <i>Mizāj Mu‘tadil Ṣinft bi’l Qiyās ila’l Dākhil</i> with example	Cognitive/co mprehension	DK	Knows	Lecture	Written /viva	F&S	II	
CO4	Define <i>Mizāj Mu‘tadil Shakhṣī bi’l Qiyās ila’l Khārij</i> with example	Cognitive/co mprehension	DK	Knows	Lecture	Written /viva	F&S	II	
CO4	Define <i>Mizāj Mu‘tadil Shakhṣī bi’l Qiyās ila’l Dākhil</i> with example	Cognitive/co mprehension	DK	Knows	Lecture	Written /viva	F&S	II	
CO4	Define <i>Mizāj Mu‘tadil ‘Uḍwī bi’l Qiyās ila’l Khārij</i> with example	Cognitive/co mprehension	DK	Knows	Lecture	Written /viva	F&S	II	
CO4	Define <i>Mizāj Mu‘tadil ‘Uḍwī bi’l Qiyās ila’l Dākhil</i> with example	Cognitive/co mprehension	DK	Knows	Lecture	Written /viva	F&S	II	

	d. Mizāj Ghayr Mu‘tadil								
CO4	Enlist the types of <i>Mizāj Ghayr Mu‘tadil</i>	Cognitive/comprehension	MK	Knows	Lecture	Written/viva	F&S	II	
	e. Amjiza A‘dā’								
CO4, CO6	Identify the <i>A‘dā’ Mu‘tadila</i> along with their constitutional hierarchy and its justification	Cognitive/comprehension	DK	Knows	Lecture/open book discussion	Written/viva/ open book test/project work	F&S	II	
CO4, CO6	Identify the <i>A‘dā’ Ḥārri</i> along with constitutional hierarchy and its justification	Cognitive/comprehension	DK	Knows	Lecture	Written/viva/assignment	F&S	II	
CO4, CO6	Identify the <i>A‘dā’ Bārīda</i> along with constitutional hierarchy and its justification	Cognitive/comprehension	MK	Knows	Lecture	Written/viva/assignment	F&S	II	
CO4, CO6	Identify the <i>A‘dā’ Yābīsa</i> along with constitutional hierarchy and its justification	Cognitive/comprehension	MK	Knows	Lecture	Written/assignment	F&S	II	
CO4, CO6	Identify the <i>A‘dā’ Raḥḥa</i> along with constitutional hierarchy and its justification	Cognitive/comprehension	MK	Knows	Lecture	Written/assignment	F&S	II	
	f. Mizāj Insānī and Ajnās ‘Ashara								

CO4	Appraise the <i>Mizāj Insānī</i> (human constitution) based on <i>Ajnās 'Ashara</i>	Cognitive/comprehension	MK	Knows	Lecture	Written/open book test/project work	F&S	II	
<i>g. Amzija Asnān</i>									
CO4	Classify the <i>Amzija Asnān</i> (constitution of different stages)	Cognitive/comprehension	MK	Knows	Lecture	Written/viva	F&S	II	
CO4	Explain <i>Sinn-i- Numū</i>	Cognitive/comprehension	MK	Knows	Lecture	Written/viva	F&S	II	
CO4	Explain <i>Sinn-i-Shabāb</i>	Cognitive/comprehension	MK	Knows	Lecture	Written/viva	F&S	II	
CO4	Explain <i>Sinn-i- Kuhūlat</i>	Cognitive/comprehension	MK	Knows	Lecture	Written/viva	F&S	II	
CO4	Explain <i>Sinn-i-Shaykhūkhat</i>	Cognitive/comprehension	MK	Knows	Lecture	Written/viva	F&S	II	

<i>h. Mizāj Ajnās</i>									
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CO4	Explain the necessity and significance of <i>Mizāj Ajnās</i>	Cognitive/ comprehension	DK	Knows	Lecture/ Jigsaw activity	Written /viva/ open book test/project work	F&S	II	
<i>i. Mizāj Iqlīm</i>									
CO3	Describe different doctrines in respect of <i>Mizāj Iqlīm</i>	Cognitive/ comprehension	DK	Knows	Lecture/ Jigsaw activity	Written /viva/ open book test/project work	F&S	II	
CO4	Identify equable temperament of <i>Iqlīm</i> with argument	Cognitive/ comprehension	NK	Knows	Lecture	Written /viva/ open book test/project work	F	II	
<i>j. Tashkhīṣ Marāḍ and Mizāj</i>									
CO4	Explain the importance of <i>Mizāj</i> in diagnosis of diseases	Cognitive/ comprehension	NK	Knows	Lecture/ Jigsaw activity	Written /viva/assignment	F	II	
<i>k. Recommendation of diets, drugs and Mizāj</i>									
CO4	Describe the importance of <i>Mizāj</i> in <i>Tashkhīṣ</i>	Cognitive/ comprehension+ recall	NK	Knows	Lecture/ tutorial	Written /viva	F	II	

CO4	Explain the importance of <i>Mizāj</i> in prescribing medicines	Cognitive/ comprehension+ recall	NK	Knows	Lecture/ group discussion	Written /viva	F	II	
<p>Topic 4 - (<i>Akhlāṭ</i>) (Lecture:- 15 hours, Non lecture 6 hours)</p> <p>a) <i>Akhlāṭ</i>: definition, concept and understanding and types</p>									
CO5	Define <i>Akhlāṭ</i>	Cognitive/ comprehension	MK	Knows	Lecture	Written /viva	F&S	II	
CO5	Explain different theories in respect of production of <i>Akhlāṭ</i>	Cognitive/ comprehension	DK	Knows	Lecture/ Jigsaw activity	Written/ open book test/project work/ Quiz/ Puzzle	F&S	II	
CO5	Enlist the types of <i>Akhlāṭ</i>	Cognitive/ comprehension	MK	Knows	Lecture/ tutorial	Written /viva	F&S	II	
CO5	Explain the <i>Tawlīd Akhlāṭ</i> in details	Cognitive/ comprehension/recall	DK	Knows	Lecture/ Group discussion	Written/ open book test/project work	F&S	II	
<p>b. <i>Ruṭūbat Ūlā</i> and <i>Thāniya</i></p>									

CO5	Describe <i>Ruṭūbat Ūlā</i> and their classification	Cognitive/comprehension	DK	Knows	Lecture	Written/viva	F&S	II	
CO5	Describe <i>Ruṭūbat Thāniya</i> and their classification	Cognitive/comprehension	NK	Knows	Lecture/self-directed learning	Written	F	II	
c. <i>Khilṭ Dam</i>: definition, explanation, importance, and application									
CO5	Describe <i>Dam</i> and its constitutional hierarchy along with arguments	Cognitive/comprehension	MK	Knows	Lecture/seminar/workshop	Written/open book test/project work	F&S	II	
CO5	Enlist types of <i>Dam</i>	Cognitive/comprehension	DK	Knows	Lecture	Written/viva	F&S	II	
CO5	Discuss <i>Ṭab īṭ Dam</i> and its characteristics	Cognitive/comprehension	DK	Knows	Lecture	Written	F&S	II	
CO5	Discuss <i>Ghayr Ṭab īṭ Dam</i> and its classification	Cognitive/comprehension	NK	Knows	Lecture/tutorial	Written	F	II	
CO5	Discuss and enlist <i>Amrāḍ Damwiyya</i>	Cognitive/comprehension	NK	Knows	Lecture	Written	F	II	

	d. <i>Khilṭ Balgham</i>: definition, explanation, importance, types and application								
CO5	Define <i>Balgham</i> and its constitutional hierarchy along with arguments and its benefits	Cognitive/ comprehension	MK	Knows	Lecture	Written/ open book test/project work	F&S	II	

CO5	Enlist the types of <i>Balgham</i>	Cognitive/ comprehension	MK	Knows	Lecture	Written /viva	F&S	II	
CO5	Define <i>Ṭab ṭī</i> <i>Balgham</i> , its characteristics and necessities	Cognitive/ comprehension	DK	Knows	Lecture/ seminar/ workshop	Written	F&S	II	
CO5	Define <i>Balgham Ghayr Ṭabṭī</i>	Cognitive/ comprehension	MK	Knows	Lecture	Written /viva	F&S	II	
CO5	Enlist the types of <i>Balgham Ghayr Ṭabṭī</i> based on taste	Cognitive/ comprehension	NK	Knows	Lecture/ tutorial	Written/ viva	F	II	
CO5	Enlist the types of <i>Balgham Ghayr Ṭab ṭī</i> based on consistency	Cognitive/ comprehension	NK	Knows	Lecture	Written/ viva	F	II	
CO5	Enlist the types of <i>Balgham Ghayr Ṭab ṭī</i> based on <i>Rāyeḥa</i> (odor)	Cognitive/ comprehension	NK	Knows	Lecture	Written /viva	F	II	

CO5	Classify <i>Amrād Balghamiyya</i>	Cognitive/ comprehension	NK	Knows	Lecture/ tutorial	Written/assignment	F	II	
e. <i>Khilṭ Ṣafrā</i>: definition, explanation, importance, types, and application									
CO5	Define <i>Ṣafrā</i> , its constitutional hierarchy along with arguments and its benefits	Cognitive/ comprehension	MK	Knows	Lecture/ problem based	Written/ open book test/project	F&S	II	
					learning	work			
CO5	Enlist the types of <i>Ṣafrā</i> '	Cognitive/ comprehension	MK	Knows	Lecture	Written/ viva	F&S	II	
CO5	Define <i>Ṣafrā</i> ' <i>Ṭab īṭ</i> , its characteristics and significance	Cognitive/ comprehension	DK	Knows	Lecture/ group discussion	Written/ viva/ open book test/project work	F&S	II	
CO5	Describe <i>Ṣafrā</i> ' <i>Ghayr Ṭab īṭ</i> along with its classification	Cognitive/ comprehension	DK	Knows	Lecture	Written	F&S	II	
CO5	Enlist the <i>Amrād Ṣafrāwiyya</i>	Cognitive/ comprehension	NK	Knows	Lecture	Written/ viva	F	II	
f. <i>Khilṭ Sawdā</i>: definition, explanation, importance, types, and application									

CO5	Define <i>Sawdā'</i> , its constitutional hierarchy with their arguments and benefits	Cognitive/comprehension	MK	Knows	Lecture/Jigsaw activity	Written/open book test/project work	F&S	II	
CO5	Enlist the types of <i>Sawdā'</i>	Cognitive/comprehension	MK	Knows	Lecture	Written/viva	F&S	II	
CO5	Define <i>Sawdā' Ṭaḅ ī'ī</i> , its characteristics and significance	Cognitive/comprehension	DK	Knows	Lecture/seminar/workshop	Written	F&S	II	

CO5	Describe <i>Sawdā' Ghayr Ṭaḅ ī'ī</i> along with its classification	Cognitive/comprehension	DK	Knows	Lecture	Written	F&S	II	
CO5	Enlist the <i>Amrād Sawdāwiyya</i>	Cognitive/comprehension	DK	Knows	Lecture	Written	F&S	II	

g. Justification of *Arb'iat Akhlāṭ*

CO5	Justify the <i>Arb'iat Akhlāṭ</i> based on arguments	Cognitive/comprehension	MK	Knows	Lecture/self-directed learning	Written/open book test/project work	F&S	II	
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Topic 5- (*A'dā'*) (Lecture:- 5 hours, Non lecture 4 hours)

a. *A'dā'*: Description and their classification

CO6	Describe <i>A 'dā'</i> (Organs)	Cognitive/comprehension	MK	Knows how	Lecture/ audio-visual demonstration	Written /viva	F&S	II	Tashrīh
CO6	Classify <i>A 'dā'</i> (Organs)	Cognitive/comprehension	MK	Knows how	Lecture/ audio-visual demonstration	Written /viva/ Quiz/ Puzzle	F&S	II	Tashrīh
b. Definition of <i>A 'dā'</i> Mufrada, classification, opinions of different physicians									
CO6	Define <i>A 'dā'</i> Mufrada (Simple Organs)	Cognitive/comprehension	MK	Knows	Lecture/ group discussion	Written/viva	F&S	II	
CO6	Classify the <i>A 'dā'</i> Mufrada	Cognitive/comprehension	MK	Knows	Lecture	Written /viva	F&S	II	Tashrīh
CO6	Enlist the <i>A 'dā'</i> Mufrada and their structure and functions	Cognitive/comprehension	MK	Knows how	Lecture	Written /viva	F&S	II	Tashrīh
CO6	Explain the genesis of <i>A 'dā'</i> Mufrada and controversy amongst different group of physicians	Cognitive/comprehension	DK	Knows how	Lecture/ group discussion	Written/viva/ open book test/project work	F&S	II	Tashrīh
CO6	Justify the reason for inclusion of <i>Sha 'r</i> (Hair), <i>Zufr</i> (Nail) and <i>Mukhkh</i> (Marrow) in <i>A 'dā'</i> Mufrada	Cognitive/comprehension	DK	Knows how	Lecture/ group discussion	Written/ viva/ open book test/project work	F&S	II	Tashrīh

	c. Definition of <i>A‘dā’ Murakkaba</i> with their classification								
CO6	Define <i>A‘dā’ Murakkaba</i> (Compound Organs) with their classification	Cognitive/demonstration	MK	Knows	Lecture/Jigsaw activity	Written/viva	F&S	II	Tashrīḥ
	d. <i>A‘dā’ Ra’īsa</i>								
CO6	Define <i>A‘dā’ Ra’īsa</i> (Vital Organs) and their classification	Cognitive/recall	MK	Knows	Lecture/group discussion	Written/viva	F&S	II	Tashrīḥ
	e. <i>A‘dā’ Khādima</i>								
CO6	Define <i>A‘dā’ Khādima</i> (Subordinate Organs)	Cognitive/demonstration	MK	Knows	Lecture	Written/viva	F&S	II	Tashrīḥ
	f. <i>‘Uḍw Mu‘īṭ</i> and <i>‘Uḍw Qābil</i>								
CO6	Explain the concept of <i>‘Uḍw Mu‘īṭ</i> (Donor Organ)	Cognitive/comprehension	DK	Knows	Lecture	Written/open book test/project work	F&S	II	Tashrīḥ
CO6	Explain the concept of <i>‘Uḍw Qābil</i> (Recipient Organ)	Cognitive/comprehension	MK	Knows	Lecture	Written/assignment	F&S	II	Tashrīḥ
Topic 6- (<i>Arwāḥ</i>) (Lecture:- 5 hours, Non lecture 3 hours)									
	a) Definition of <i>Arwāḥ</i> and their classification								

CO7	Define <i>Arwāh</i> and their classification	Cognitive/comprehension	MK	Knows how	Lecture	Written/viva	F&S	III	
b) Concept of <i>Rūh</i> according to different Unani Scholars									
CO7	Describe the Concept of <i>Arwāh</i> (Pneuma) according to different Cognitive/comprehension DK Knows how Group book discussion test/project work	Written F&S III	Unani	Scholars					
c) Functions of <i>Arwāh</i> and their <i>Masālik</i>									
CO7	Classify the functions of <i>Arwāh</i> and their <i>Masālik</i> (channels)	Cognitive/demonstration	MK	Knows how	Lecture/audio-visual demonstration	Written/Quiz/Puzzle	F&S	III	
d) <i>Tanqiya</i> and <i>Tarwīh</i>									
CO7	Discuss in brief <i>Tanqiya</i> and <i>Tarwīh</i>	Cognitive/comprehension	MK	Knows	Lecture/group discussion	Written/viva	F&S	III	
e) Concentration of <i>Rūh</i> in different organs									
CO7	Analyze the concentration of <i>Rūh</i> in different organs	Cognitive/Analyze	DK	Knows how	Lecture	written	F&S	III	

Topic 7 - (Quwā) (Lecture:- 15 hours, Non lecture 9 hours)

a) Definition of <i>Quwā</i> with their classification									
CO8	Define <i>Quwā</i> (Powers or Faculties) with their classification	Cognitive/comprehension	MK	Knows	Lecture	Written /viva/ open book test/project work	F&S	III	
b) <i>Quwā Nafsāniyya</i>: definition, classification, functions, and complications									
CO8	Describe <i>Quwā Nafsāniyya</i> (Psychic or Mental Faculty) in brief	Cognitive/comprehension	MK	Knows	Lecture	Written open book test/project work /	F&S	III	Tashrīḥ
CO8	Discuss <i>Quwwat Muḥarriḳa</i> (Motor Faculty)	Cognitive/recall	DK	Knows	Lecture/group discussion	Written/viva/ open book test/project work	F&S	III	Tashrīḥ
CO8	Discuss <i>A'rād Quwwat Muḥarriḳa</i> (Motor Faculty)	Cognitive/comprehension	DK	Knows how	Lecture/group	Written /viva	F&S	III	Tashrīḥ
		on/recall			discussion				

CO8	Discuss <i>Quwwat Mudrika</i> (Faculty of Perception)	Cognitive/recall	MK	Knows	Lecture/tutorial	Written/ Viva/ open book test/project work	F&S	III	Tashrīḥ
CO8	Discuss <i>Ḥawās Khamsa Zāhira</i> (Five Special Senses)	Cognitive/demonstration	MK	Knows	Lecture/audio-visual demonstration/ integrated teaching	Written /viva/ open book test/project work	F&S	III	Tashrīḥ
CO8	Describe <i>Quwwat Bāṣira</i> (Power of Vision)	Cognitive/demonstration	MK	Knows	Lecture / audiovisual demonstration/ integrated teaching	Written /viva	F&S	III	Tashrīḥ
CO8	Describe <i>Quwwat Sāmi'a</i> (Power of Hearing)	Cognitive/demonstration	MK	Knows	Lecture / audiovisual demonstration/ integrated teaching	Written /viva	F&S	III	Tashrīḥ
CO8	Enlist <i>A'rāḍ Quwwat Sāmi'a</i> (Power of Hearing)	Cognitive/recall	NK	Knows how	Lecture/tutorial	Written /viva	F	III	Tashrīḥ
CO8	Describe <i>Quwwat Shāmma</i> (Power of Smell)	Cognitive/demonstration	MK	Knows	Lecture /audiovisual demonstration/ integrated teaching	Written /viva	F&S	III	Tashrīḥ

					integrated teaching				
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CO8	Enlist <i>A'rāq Quwwat Shāmma</i>	Cognitive/recall	NK	Knows how	Lecture/ Problem based learning/ integrated teaching	Written /viva	F	III	Tashrīḥ
CO8	Describe <i>Quwwat Dhā'iqā</i> (Power of Taste)	Cognitive/demonstration	MK	Knows	Lecture /audiovisual demonstration/ integrated teaching	Written /viva	F&S	III	Tashrīḥ
CO8	Enlist <i>A'rāq Quwwat Dhā'iqā</i>	Cognitive/recall	NK	Knows how	Lecture/ problembased learning/ integrated teaching	Written /viva	F	III	Tashrīḥ
CO8	Describe <i>Quwwat Lāmisa</i> (Power of Tactile Sensation)	Cognitive/demonstration	MK	Knows	Lecture / audiovisual demonstration/ integrated teaching	Written/ viva	F&S	III	Tashrīḥ

CO8	Enlist <i>A 'rāḍ Quwwat Lāmisa</i>	Cognitive/recall	NK	Knows how	Lecture/integrated teaching	Written /viva	F	III	Tashrīḥ
CO8	Describe <i>Ḥawās Khamsa Bāṭiṇa</i> (Intellectual Senses)	Cognitive/demonstration	MK	Knows how	Lecture/ Problem based/integrated teaching learning	Written /viva/ open book test/project work	F&S	III	Tashrīḥ

CO8	Enlist <i>A 'rāḍ Ḥawās Khamsa Bāṭiṇa</i>	Cognitive/recall	NK	Knows how	Lecture/ Problem based learning/integrated teaching	Written /viva	F	III	Tashrīḥ
CO8	Describe <i>Ḥiss Mushtarak</i> (Power of Composite Senses)	Cognitive/demonstration	MK	Knows how	Lecture/ problem based integrated teaching learning/	Written /viva	F&S	III	Tashrīḥ
CO8	Describe <i>Quwwat Mutakhayyila</i> (power of reasoning and imagination)	Cognitive/comprehension	MK	Knows how	Lecture/ problem based integrated teaching learning/	written	F&S	III	Tashrīḥ

CO8	Describe <i>Quwwat Ḥafīza</i> (Power of Memory)	Cognitive/rec all	MK	Knows how	Lecture/ group discussion/ integrated teaching	Written /viva	F&S	III	Tashrī ḥ
CO8	Describe <i>Quwwat Mutaṣarrifa</i> (Power of modification)	Cognitive/rec all	MK	Knows how	Lecture/ group discussion/ integrated teaching	Written /viva	F&S	III	Tashrī ḥ
CO8	Describe <i>Quwwat Wāhima</i> (Power of apprehension)	Cognitive/rec all	MK	Knows how	Lecture/ Problem based learning/ integrated	written	F&S	III	Tashrī ḥ

					teaching				
	c) <i>Quwā Ḥaywāniyya</i>: definition, classification, functions, and complications								
CO8	Describe <i>Quwwat Ḥaywāniyya</i> (Vital Faculties)	Cognitive/demonstration	MK	Knows how	Lecture	written	F&S	III	Tashrī ḥ
CO8	Describe <i>Quwwat Fā'ila</i> and <i>Munfa'ila Ḥaywāniyya</i>	Cognitive/demonstration	DK	Knows	Lecture/ Problem based learning	Written/ open book test/project work	F&S	III	Tashrī ḥ

CO8	Discuss the advantages of <i>Inqibāḍ Qalb</i> and <i>Inbisāṭ Qalb</i> (Systolic and Diastolic movements of the Heart)	Cognitive/demonstration	DK	Knows how	Lecture / group discussion/ integrated teaching	Written /viva/ open book test/project work	F&S	III	Tashrīḥ
CO8	Enlist <i>A 'rād Quwwat Ḥaywāniyya</i>	Cognitive/recall	NK	Knows how	Lecture / Problem based learning	written	F	III	Tashrīḥ
d) <i>Quwā Ṭabī'iyya</i>: definition, classification, and functions									
CO8	Define and Classify <i>Quwwat Ṭabī'iyya</i> (Physical Power)	Cognitive/comprehension	MK	Knows	Lecture/ Problem based learning	Written/viva	F&S	III	
CO8	Define and explain the functions of <i>Quwwat Ghādhiya</i>	Cognitive/comprehension	MK	Knows	Lecture	written	F&S	III	
CO8	Define and explain the functions of <i>Quwwat Nāmiya</i> (Power of Growth)	Cognitive/comprehension	MK	Knows	Lecture	written	F&S	III	
CO8	Describe <i>Sharā'it- i-Taghdhiya</i> (Conditions of nutrition) in detail	Cognitive/comprehension	MK	Knows	Lecture/ seminar	Written /viva/ open	F&S	III	
					/workshop	book test/project work			
CO8	Explain the Functional stages of <i>Quwwat Ghādhiya</i> at organ level	Cognitive/comprehension	MK	Knows	Lecture/ group discussion	Written /viva	F&S	III	

CO8	Explain the functions of <i>Quwwat Mughayyira</i> (Power of transformation)	Cognitive/comprehension	MK	Knows	Lecture	Written/viva	F&S	III	
CO8	Define and explain the functions of <i>Quwwat Muwallida</i> (Generative Power)	Cognitive/comprehension	MK	Knows how	Lecture	Written/viva	F&S	III	
CO8	Define and explain the functions of <i>Quwwat Muṣawwira</i> (Molding Power)	Cognitive/comprehension	MK	Knows how	Lecture/problem-based learning	Written/viva	F&S	III	
CO8	Describe <i>Taghayyurāt Ghidhā'</i> (Metabolism of Nutrients) in detail	Cognitive/comprehension	DK	Knows	Lecture/audio-visual demonstration	Written/viva/open book test/project work	F&S	III	
CO8	Explain the functions of <i>Quwwat Jādhiba, Māsika, Hāḍima</i> and <i>Dāfi'a</i> (Powers of absorption, retention, digestion, and excretion)	Cognitive/comprehension	MK	Knows	Lecture/group discussion	Written/viva	F&S	III	
CO8	Enlist <i>Huḍūm Arba'a</i> (Four Digestions)	Cognitive/comprehension	MK	Knows	Lecture/open book discussion	Written/viva	F&S	III	
CO8	Describe <i>Haḍm Mi'dī</i> (The Elementary Digestion) in detail	Cognitive/demonstration	DK	Knows	Lecture/audiovisual demonstration	Written/viva	F&S	III	Tashrīḥ

CO8	Describe <i>Haḍm Kabiḍī</i> (The Hepatic Digestion) in detail	Cognitive/demonstration	DK	Knows	Lecture / audiovisual demonstration	Written /viva	F&S	III	Tashrīḥ
CO8	Describe <i>Haḍm ‘Urūq ī</i> (Vascular Digestion) in detail	Cognitive/demonstration	DK	Knows	Lecture	Written /viva	F&S	III	Tashrīḥ
CO8	Describe <i>Haḍm ‘Uḍwī</i> (Cellular Digestion) in detail	Cognitive/demonstration	DK	Knows	Lecture /audiovisual demonstration	written	F&S	III	Tashrīḥ
e) <i>Quwā Tanāsuliyya</i>: definition, classification, and complications									
CO8	Define and classify the <i>Quwwat Tanāsuliyya</i> (Power of reproduction)	Cognitive/demonstration	MK	Knows how	Lecture	Written /viva	F&S	III	Tashrīḥ
CO8	Enlist <i>A ‘rād Quwwat Tanāsuliyya</i> (Power of reproduction)	cognitive	NK	Knows how	Lecture/ problembased learning	Written /viva	F	III	Tashrīḥ
f) Classification of the <i>Af‘āl</i> (Functions) according to <i>Quwā</i> (Powers)									
CO8	Classify the <i>Af‘āl</i> (Functions) according to <i>Quwā</i> (Powers)	Cognitive/comprehension	MK	Knows	Lecture/ Problem based learning	Written /viva/ open book test/project work	F&S	III	
CO8	Explain relationship between <i>Af‘āl</i> and <i>Quwā</i>	Cognitive/comprehension	DK	Knows how	Lecture	Written /viva	F&S	III	
g) Association amongst <i>Quwā</i> and the role of <i>Ṭabī‘at</i>									

CO8, CO2	Explain the association amongst <i>Quwā</i> and the role of <i>Ṭabī'at</i>	Cognitive/co mprehension	NK	Knows how	Lecture/ audio-visual	Written /viva/ open	F	III	
					demonstrati on/tutorial	book test/project work			
Topic 8 - (<i>Af'āl</i>) (Lecture:- 5 hours, Non lecture 1 hour)									
a) <i>Definition and classification of Af'āl</i>									
CO8	Define and classify <i>Af'āl</i>	Cognitive/co mprehension	MK	Knows	Lecture/ Problem based learning	Written /viva	F&S	III	
b) <i>Fi'l Mufrad</i>									
CO8	Define and classify <i>Fi'l Mufrad</i>	Cognitive/co mprehension	MK	Knows	Lecture/ Problem based learning	Written /viva	F&S	III	
c) <i>Fi'l Murakkab</i>									
CO8	Define and classify <i>Fi'l Murakkab</i>	Cognitive/co mprehension	MK	Knows	Lecture/ Problem based learning	Written /viva	F&S	III	
d) <i>A'rāz Af'āl</i>									

CO8	Describe <i>A 'rāḍ Af'āl</i>	Cognitive/comprehension	MK	Knows	Lecture/ Problem based learning	Written/viva	F&S	III	
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Table 4: Learning objectives of *Kulliyat Umoore Tabiya* UNIUG-KUT (Practical)

A4 Course outcome	B4 Learning Objective (At the end of the practical/clinical session, the students should be able to)	C4 Domain/Sub	D4 Must know/desirable to know/Nice to know	E4 Level Does/shows/Knows how/knows	F4 T-L method	G4 Assessment	H4 Formative/summative	I4 Term	J4 Integration
Practical 1- (<i>Arkān</i>) (Non lecture:- 12 hours)									
CO3	illustrate the natural position of <i>Arkān</i>	Cognitive/comprehension	MK	Knows + Knows how	schematic diagram	Written/viva	F & S	I	
	Identify and classify the Elements with the help of Periodic Table	Cognitive/comprehension Psychomotor	MK	Knows + Knows how	schematic diagram	Written/viva	F & S	I	

	Illustrate ' <i>Anāṣir Insāniyya</i>	Cognitive/ comprehension	MK	Knows + Knows how	schematic diagram	Written/vi va	F & S	I	
Practical 2- (<i>Mizāj</i>) (Non lecture:- 23 hours)									

CO4	Evaluate <i>Mizāj Shakhsī</i> through <i>Ajnās 'Ashara</i>	Cognitive/ Comprehension	MK	Knows + Knows how	schematic diagram/inquiry -based learning	Written/vi va	F& S	II	
	Demonstrate <i>Aqālīm</i> with map/globe	Cognitive/ Comprehension	MK	Knows + Knows how +shows	schematic diagram/ audio visual demonstration	Written/vi va	F& S	II	
	Discuss and demonstrate old and new demarcation of <i>Aqālīm</i>	Cognitive/ Comprehension	MK	Knows + Knows how	schematic diagram/audio visual demonstration	Written/vi va	F& S	II	

Practical 3- (<i>Akhlāṭ</i>) (Non lecture:- 25 hours)									
CO5	Demonstrate <i>Akhlāṭ Arba 'a</i> by blood sample	Cognitive/ comprehension /Psychomotor	MK	Knows + Knows how +shows	Demonstration/ observation/	Written/vi va	F& S	II	

	Evaluate <i>Ghalaba-i-Akhlāt</i> by their ' <i>Alāmāt</i>	Cognitive/ Comprehension	MK	Knows + Knows how	schematic diagram/ Demonstration of Akhlāt of venous blood sample	Written/vi va	F& S		
Practical 4- (<i>A'dā'</i>) (Non lecture:- 12 hours)									
CO6	Examination of <i>A'dā' Mufrada</i> with the help of slide showing	Cognitive/ Comprehension/P sychomotor	MK	Knows + Knows how +shows	schematic diagram	Written/vi va	F& S	II	Ta sh rīh
	microstructural peculiarities and <i>A'dā' Murakkaba</i> by diagram and models/specimen s								
	Illustrate the functions of different organs	Cognitive/ Comprehension	MK	Knows + Knows how	schematic diagram	Written/vi va	F& S	II	
Practical 5- (<i>Arwāh</i>) (Non lecture:- 7 hours)									
CO7	Explain the classification of <i>Arwāh</i> by innovative mode	Cognitive/ Comprehension	MK	Knows + Knows how	schematic diagram	Written/vi va	F& S	III	

Practical 6 - (<i>Quwā</i>) (Non lecture:- 15 hours)									
CO8	Explain the classification of <i>Quwā</i>	Cognitive/ comprehension	MK	Knows + Knows how	schematic diagram	Written/vi va	F& S	III	
CO8	Illustrate <i>Quwwat Bāṣirā</i> through assessment of visual Acuity by Snellen Chart	Cognitive/Recall+ Comprehension	MK	Knows+ Knows how	Tutorial+ Demonstration	Written Practical exam +Viva-Voce	F & S	III	Ta sh rīḥ
CO8	Illustrate <i>Quwwat Sāmi'a</i> through Tuning Fork Test/ Audiometry	Cognitive/Recall+ Comprehension Psychomotor	MK	Shows/ Knows /Knows how	Tutorial+ Demonstration	Written/ Practical exam +Viva-Voce	F & S	III	Ta sh rīḥ
CO8	Demonstrate <i>Quwwat Lāmisa</i> through perception of <i>Kayfiyāt Arba'a</i> by calorimeter with tactile sensation	Cognitive/ comprehension Psychomotor	MK	shows	Demonstration/ observation	Written/vi va	F & S	III	Ta sh rīḥ

CO8	Describe and demonstrate <i>Ḥawās</i> <i>Khamsa Bāṭiṇa</i>	Cognitive/Recall+ Comprehension	MK	Shows/ Knows/ Knows how	schematic diagram/Demonstration	Written /Practical exam +Viva-Voce	F & S	III	Ta sh rīḥ
CO8	Describe and demonstrate the <i>Ḥiss Mushtarak</i> by Newton's Colour Disc	Cognitive/Recall+ Comprehension	MK	Shows /Knows+ Knows how	Audio visual	Written/ Practical exam +Viva-Voce	F & S	III	Ta sh rīḥ
CO8	Describe and demonstrate the <i>Quwwat Wāhima</i>	Cognitive/Recall+ Comprehension	MK	Shows/Know s/ Knows how	Audio visual	written /Practical exam +Viva-Voce	F & S	III	Ta sh rīḥ
CO8	Describe and demonstrate the <i>Quwwat Ḥafīza</i> through PGI Memory Scale	Cognitive/Recall+ Comprehension	MK	Shows/Know s/ Knows how	Tutorial+ Demonstration	Written/Pra ctical exam +Viva-Voce	F & S	III	Ta sh rīḥ
Practical 7 - (Af'al) (Non lecture:- 4 hours)									
CO8	Illustrate the classification of <i>Af'al</i>	Cognitive/ comprehension	MK	Knows + Knows how +shows	schematic diagram/demon stration	Written/vi va	F& S	III	
CO8	Illustrate the functions of different organs	Cognitive/ Comprehension Psychomotor	MK	Knows + Knows how	Tutorial+ Demonstration	Written/viv a	F& S	III	

Table 5- Non Lecture Activities of *Kulliyat Umoore Tabiya* UNIUG-KUT

Sr. No.	List non lecture Teaching-Learning methods	No of Activities
1.	Group discussion	21
2.	Seminar/Workshop	27
3.	Tutorial	16
4.	Problem based learning	12
5.	Self-directed learning	03
6.	Audio visual demonstration	02
7.	Integrated teaching	17
8.	Jigsaw activity	08
9.	Open book discussion/ Open book Test	15
10	Quiz/ Puzzle	06
11	schematic diagram	13

Table 6: Assessment Summary**6 A - Number of papers and Marks Distribution**

S. No.	Subject	Papers	Theory	Practical or Clinical Assessment					Grand Total
				Practical or Clinical	Viva	Electives	IA	Total	
1.	<i>Kulliyat Umoore Tabiya</i> (Basic Principles of Unani Medicine)	1	100	100	20	10	20	150	250

6. B - Scheme of Assessment (formative and Summative)

SR.NO.	PROFESSIONAL COURSE	DURATION OF PROFESSIONAL COURSE		
		First Term (1-6 Months)	Second Term (7-12 Months)	Third Term (13-18 Months)

1	First	3 PA & First TT	3 PA & Second TT	3 PA & UE
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PA: Periodical Assessment; TT: Term Test; UE: University Examinations

6 C - Calculation Method for internal assessment Marks (20 Marks)

TERM	PERIODICAL ASSESSMENT				TERM TEST	TERM ASSESSMENT	
	A	B	C	D	E	F	G
	1 (20)	2 (20)	3 (20)	Average (A+B+C/3) 20	Term Test (MCQ+SAQ+LAQ and Practical (Converted to 20)	Sub Total	Term Assessment
FIRST						D+E	D+E /2
SECOND						D+E	D+E /2
THIRD					NIL	D	D
Final IA	Average of Three Term Assessment Marks as Shown in 'G' Column						

6 D - Evaluation Methods for Periodical Assessment

S. No.	Evaluation Methods
1.	Practical / Clinical Performance
2.	Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
3.	Open Book Test (Problem Based)
4.	Summary Writing (Research Papers/ Samhitas)
5.	Class Presentations; Work Book Maintenance
6.	Problem Based Assignment
7.	Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (MiniCEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)
8.	Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).
9.	Small Project

10.	Other activities explained in Table 3 Column G3 as per indicated term.
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6 E - Question Paper Pattern

I PROFESSIONAL BUMS EXAMINATIONS

UNIUG-KUT

PAPER

Time: 3 Hours Maximum Marks: 100

INSTRUCTIONS: All questions compulsory

		Number of Questions	Marks per question	Total Marks
Q 1	Multiple Choice Questions (MCQ)	20	1	20
Q 2	Short answer questions (SAQ)	8	5	40
Q 3	Long answer questions (LAQ)	4	10	40
				100

6 F - Distribution of Theory examination

	A List of Topics	B Term	C Marks	D Type of Questions "Yes" can be asked. "No" should not be asked.		
				MCQ (1 Mark)	SAQ (5 Marks)	LAQ (10 Marks)
1	مبحث عام (Mabhas-i-'Ām)	I	10	yes	yes	No

	<p>علم طب : موضوع، غرض و غا تی اور ا) (<i>IlmṬibb, Mawḍū, Gharḍ-o-Ghāyat and its types</i>)</p> <p>b) اسباب وجود ان نی مع اقسام (<i>Asbāb-i-Wujūd Insāni and its classification</i>)</p> <p>Umūr (امور طب ی عی ہ : اہمیت اور اقسام c)) <i>Ṭabī'iyya, importance and classification</i></p> <p>طبیعت : تفہیم، اہمیت، آلات اور مناسبات سے اس کا تعلق d)) <i>(Ṭabī'at: understanding, importance, tools and its</i></p>					
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2	<p>relation with immunity)</p> <p>حرارتِ غریبہ، افعال، رطوبت، غریبہ اور ریفوی زی یہ تصور، تفہیم، غریبہ اور ریفوی e)) <i>Ḥarārat</i> (حرارت ت غریبہ اور ریفوی <i>Gharīziyya: Concept, Understandings, Functions, Ruṭūbat Gharīziyya, Ḥarārat Gharība and Ufūnat</i></p>	I	10	yes	yes	Yes
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	<p>a) ارکان/عناصر (<i>Arkān/ 'Anāṣir</i>)</p> <p>b) ارکانِ اربعہ کا تصور (<i>concept of Arkān</i>)</p> <p><i>Arba 'a</i>)</p> <p>ارکان، عناصر اور اس طبقہ کے مابین فرق</p> <p>c) ق (difference between <i>Arkān</i>, <i>'Anāṣir</i> and <i>Uṣṭuquṣṣāṭ</i>)</p> <p>d) کیفیات اربعہ (<i>Kaifiyāt Arba 'a</i>)</p> <p>e) ارکان کی اقسام (<i>Types of Arkān</i>)</p> <p>دید (Theorem of عناصرِ اربعہ کی ج دید توضیح f) structural peculiarity of modern science)</p> <p>g) عناصر کی اطلاقی حیثیت (<i>Clinical orientation of 'Anāṣir in case of their excess and deficiency</i>)</p>					
3	مزاج / کیفیت (<i>Mizāj/ Kaifiyāt</i>)	II	20	Yes	Yes	Yes
	<p><i>Mizāj</i>: (مزاج: تعریف، توضیح اہمیت اور اقسام)</p> <p>a) Definition, explanation, significance and types)</p> <p>b) مزاج معتدل (<i>Mizāj Mu 'tadil</i>)</p> <p>c) مزاجِ طبی معتدل (<i>Mizāj Mu 'tadil Ṭibbī</i>)</p> <p>d) مزاجِ غیر معتدل (<i>Mizāj Ghayr Mu 'tadil</i>)</p>					

	<p>e) ا ضاء مزجہ اع (<i>Amzija A'dā'</i>)</p> <p>f) ر او ان نی مزاج (<i>Mizāj Insānī and Ajnās 'Ashara</i>)</p> <p>g) ا مزجہ اسنان (<i>Amzija Asnān</i>)</p> <p>h) مزاج اجناس (<i>Mizāj Ajnās</i>)</p> <p>i) ت مزاج اقلیم (<i>Mizāj Iqlīm</i>)</p> <p>ی شخ ت (<i>Tashkhīṣ-i-</i> ص مرض اور زم اج (j) <i>Maraḍ and Mizāj</i>)</p> <p>k) تجویزی غذا، دوا اور مزاج (Recommendation of diets, drugs and Mizāj)</p>					
4	اخلاط (<i>Akhlāt</i>)	II	15	Yes	yes	Yes

	<p>اخلاط : (اص ت <i>Akhlāt: definition, concept and understanding and types)</i> تعريف، تۆر و تفهيم و اقسام ليو ي اوت رطو b) ثنيه (<i>Ruṭūbat Uūla and Thāniya</i>) c) دم: تعريف و توضيح مع دلائل، ا هميت، ا قسام اور اطلاقحيثيت (<i>Khilṭ Dam: definition, explanation, importance, types and application</i>) خلط بلغم: تعريف و توضيح مع دلائل، ا هميت، ا قسام اور اطلاقحيثيت (<i>Khilṭ Balgham: definition, explanation, importance, types and application</i>) خلط صفراء: تعريف و توضيح مع دلائل، ا هميت، ا قسام اور e) اطلاقحيثيت (<i>Khilṭ Ṣafrā': definition, explanation, importance, types and application</i>) خلط سوداء: تعريف و توضيح مع دلائل، ا هميت، ا قسام اور اطلاق حيثيت (<i>Khilṭ Sawdā': definition, explanation, importance, types and</i></p>					
	<p>application) اربعيت اخلاط ك دلائل g) (<i>Arb'iat Akhlāt</i>)</p>					

5	(<i>A 'dā'</i>) اع ضاء	II	10	yes	Yes	No
	<p>a) اع ضاء کی تو ضیح اور اقسام (<i>A 'dā'</i>): Description and their classification)</p> <p>اع ضاء مفردہ کی تعریف، اقسام اور عدد اع ضاء میں اطباء کی b) (Definition of <i>A 'dā' Mufrada</i>, classification, opinions of different physicians)</p> <p>ہ کی تعریف اور اقسام c) (Definition of <i>A 'dā' Murakkaba</i> with their classification)</p> <p>d) ض اع ا (<i>A 'dā' Ra'īsa</i>)</p> <p>e) اع ضاء خادمہ (<i>A 'dā' Khādima</i>)</p> <p>f) عضو معطی و عضو فا (<i>'Uḍw Mu'tī and 'Uḍw Qābil</i>)</p>					
6	ارواح (<i>Arwāh</i>)	III	10	Yes	Yes	No

	<p>a) اروا حکی تعریف اور اقسام (Definition of <i>Arwāh</i> and their classification)</p> <p>b) اطباء کینظر میں رو حکا تصور (Concept of <i>Rūh</i>, according to different Unani Scholars)</p> <p>c) وظائف روح او رسالک (Functions of <i>Arwāh</i> and their <i>Masālik</i>)</p> <p>d) زی ہ اور تی قی ت ویح (Tanqiya and Tarwīh)</p> <p>e) روح کار تکا زمختلف اع ضاء میں (Concentration of <i>Rūh</i> in different organs)</p>					
7	قوی (Quwā)	III	20	Yes	yes	Yes
	<p>a) ص</p> <p>(Definition of قوی کی تعریف اقسام او رو ظائ <i>Quwā</i> with their classification and functions)</p> <p>b) ص</p> <p>قوی نفسانیہ : تعریف مع اقسام، وظائ وعوارضات (<i>Quwā Nafsāniyya</i>: definition, classification, functions and complications)</p> <p>c) ص</p> <p>قوی حیوانیہ : تعریف مع اقسام، وظائ و</p> <p>(<i>Quwā Haywāniyya</i>: definition, classification, functions and complications)</p>					

	<p>d) ص</p> <p>قسماء و وظائ (Quwā) قوی طبعیه : تعریف مع</p> <p>Tabī'iyya: definition, classification and functions)</p> <p>e) تناسلی ہ : تعریف اقسام و عوارضات (Quwā) قوی</p> <p>Tanāsuliyya: definition, classification, and complications)</p> <p>f) بحیثیتقو ی (Classification) افعال کیتقسیم</p> <p>of the Af'āl (Functions) according to Quwā)</p> <p>g) قوی میں ث (همی اشتراک اور طبیعت کا کردار</p> <p>Association amongst Quwā and the role of Tabī'at)</p>					
8	افعال (Af'āl)	III	5	Yes	Yes	No
	<p>a) افعال کی تعریف اور اقسام (Definition and classification of Af'āl)</p> <p>b) فعلمفرد (Fi'l Mufrad)</p> <p>c) فعلمرکب (Fi'l Murakkab)</p> <p>d) اعراضافعال (A'rād Af'āl)</p>					

6 G - Question Paper blueprint

A Question Sr. No.	B Type of Question	C Question Paper Format
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Q1	<p>Multiple choice Questions (MCQ)</p> <p>20 Questions</p> <p>1 mark each</p> <p>All compulsory</p> <p>Must know 15 MCQ Desirable to know 3 MCQ Nice to know 2 MCQ</p>	<p>1. Topic number 1a./ 1b./ 1c./ 1d./ 1e</p> <p>2. Topic number 2a./ 2b./ 2c./ 2d</p> <p>3. Topic number 2e./ 2f./ 2g</p> <p>4. Topic number 3a./ 3c</p> <p>5. Topic number 3e./ 3f 6. Topic number 3g./ 3h./ 3i.</p> <p>7. Topic number 3j./ 3k./ 4a.</p> <p>8. Topic number 4b./ 4c./ 4d.</p> <p>9. Topic number 4e./ 4f./ 4g.</p> <p>10. Topic number 5a./ 5b./ 5c.</p> <p>11. Topic number 5d./ 5e.</p> <p>12. Topic number 5f./ 6a.</p> <p>13. Topic number 6b./ 6c. 14. Topic number 6d./ 6e. 15. Topic number 7a./ 7b.</p> <p>16. Topic number 7c./ 7d.</p> <p>17. Topic number 7e./ 7f.</p> <p>18. Topic number 8a./ 8b.</p> <p>19. Topic number 8c.</p> <p>20. Topic number 8d.</p>
Q2	<p>Short answer Questions (SAQ)</p> <p>Eight Questions</p> <p>5 Marks Each</p> <p>All compulsory</p> <p>Must know 7 SAQ Desirable to know 1 SAQ Nice to know Questions on</p>	<p>1. Topic number 1a./ 1b./ 1d./ 1e.</p> <p>2. Topic number 2a./ 2c./ 2d./ 2g.</p> <p>3. Topic number 3b./ 3i./ 3j./ 3k.</p> <p>4. Topic number 4d./ 4e./ 4f./ 4g. Topic</p> <p>5. number 5a./ 5d./ 5e./ 5f.</p> <p>6. Topic number 6a./ 6c./ 6d./ 6e.</p> <p>7. Topic number 7b./ 7d./ 7f./ 7g.</p> <p>8. Topic number 8a./ 8b./ 8c./ 8d.</p>
Q3	<p>Long answer Questions (LAQ)</p> <p>Four Questions</p> <p>10 marks each</p> <p>All compulsory</p> <p>All questions on must know No Questions on Nice to know and Desirable to know</p>	<p>1. Topic number 2a./ 2b./ 2c./ 2d./ 2e./ 2f.</p> <p>2. Topic number 3a./ 3b./ 3c./ 3d. / 3f. / 3g. / 3e.</p> <p>3. Topic number 4a./ 4d./ 4e./ 4f. / 4g.</p> <p>4. Topic number 7a./ 7b./ 7d./ 7e. / 7f.</p>

6 H - Distribution of Practical Examination

SN	Heads	Marks
1	Practical (Total Marks 100)	

	Natural position of Arkan/Classification of elements with the help of Periodic Table/Schematic representation of 'Anāshir Insāniyya	30
	Evaluation of <i>Mizāj Insānī</i> by questionnaire based on <i>Ajnās 'Ashara</i> / Demonstration of <i>Iqlīm</i> by globe and graph/ Explanation of Arwah with innovative methods	30
	Evaluation of <i>Ghalaba-i- Akhlāt</i> / Assessment of <i>A 'dā' Mufrada wa A 'dā' Murakkaba</i> / Illustration of different <i>Quwa</i>	30
	Record Book	10
2	Viva Voce	20
3	Internal	20
4	Electives	10
	Total Marks	150

Table 7. Reference Books/Resources:

S.No:	Name of book	Authors
1	اكسير القلوب Ikseer-ul-Qulūb	حكيم محمد اكبر ارزاني Hakim Mohammad Akbar Arzani, Idara Kitab-ul-Shifa. New Delhi, 2019
2	کا ملال صینا Kaamil-as- Sina'ah	علین عبا سمجوسی Ali Ibn Abbas Majoosi, Idara Kitab-ul-Shifa. New Delhi, 2010
3	امور طب ع ی ه Introduction to Umūr Tabī'iyya	پروفیسر قاحمد سیداشتیا Prof. Syed Ishtiyaq Ahmad Tibbiya College, Karol Bagh, New Delhi.1980.
4	لحکمتفی ا لطب فردوس ا Firdaus-al-Hikmat fil Tibb	علی بنین طبری Ali ibn Rabban Tabri Idara, Kitab-ul-Shifa. New Delhi,

		2010
5	کتاب المرشد Kitabul Murshid (Urdu translation)	حکیم رضی الا سلام ندوی Raziul Islam Nadwi, Anjuman Taraqqi Urdu Bureau. New Delhi, 2000.
6	کلیات عصری Kulliyat-e-Asri	پروفیسر سید اشتیاق احمد Prof Syed Ishtiyaq Ahmad, Tibbiya College, Karol Bagh, New Delhi. 1983.
7	کلیات قانون Kulliyat-e-Qanoon	علامہ محمد کبیر الدین Allama Mohammad Kabiruddin, Ajaz Publishing House. Darya Ganj, New Delhi. 2006
8	کلیات ن ف ی سی Kulliyat-e-Nafisi	علامہ محمد کبیر الدین Allama Mohammad Kabiruddin, Idara Kitab-ul-Shifa. New Delhi, 1934
9	Ifada-e- Kabīr بکیر فاد ا	علامہ محمد کبیر الدین Allama Mohammad Kabiruddin, NCPUL, HRD Ministry, Govt. of India, 2001.
10	عین الحیوة Ain al-Hayāt (Urdu translation)	حکیم سید ظل ال ح Hakim Syed Zillur Rahman, Ibn Sina Academy, Aligarh. 2007.
11	کتاب القوی ال ی ع ن ه ی Kitab al Quwā al Tabī 'iyya	حکیمو سیم احمد Hakim Wasim Ahmad, Azra Book Traders, Sir Syed Ahmad Road Darya Ganj, New Delhi 2020.
12	ذخیر ہخوارزم ش ہی Zakheera Khwarazm Shahī	اسما عی جز جانی Ismail Jurjani, Aijaz Publishing House. Darya Ganj, New Delhi. 2010.
13	کتاب الکلیات Kitab -al-Kulliyat	علامہ رشد Ibn Rushd, Maktaba Daniyaal, Urdu Bazaar Lahore, 2017.

14	مو جرالقانون Mawjaz- al- Qanoon (Urdu translation)	ت علامه علاء الدین قرشی Allama Qarshi NCPUL, HRD Ministry, Govt. of India, 1984.
15	القانون نفی ا لطب Al-Qanoon fil Tibb	ابن سینا Ibn Sina, Ajaz Publishing House. Darya Ganj, New Delhi.
16	نظری توفلس ف نه طب Nazariyāt wa Falsafa-i- Tib	انسٹی ٹیو ٹاف ہسٹر یاف میڈیسن اینڈ میڈیکل ریسرچ Institute of history of medicine and medical research, Hamdard Buildings, Delhi. 1962.
17	کتاب فی الارکان Kitab fil Arkān	پروفیسر حکیم سید ظل ار ح Prof. Hkm. Syed Zillur Rahman. Ibn Sina Academy, Aligarh. 2008.
18	کتاب فی المزاج Kitab fil Mizāj	پروفیسر حکیم سید ظل ار ح Prof. Hkm. Syed Zillur Rahman. Ibn Sina Academy, Aligarh. 2008
19	کتاب فی الفرق الطب Kitab al Firaq at Tib	جالینوس Jalinoos (Urdu Translation by Hakim Zillur Rahman)
20	کتاب المنصوری Kitab- al-Mansoori	حکیم محمد زکرت رازی Hakim Mohammad Zakariya Razi, CCRUM. New Delhi. 1991.
21	کتاب المیة Kitāb al-Miya	ابوسہل مسیحی Abu Sahl Masihi, CCRUM, New Delhi, 2008.
22	اطلا فیکلیات Itlaqi Kulliyāt	پروفیسر ذوا لکفل Prof. Mohammad Zulkifle, NIUM, Bangalore. 2020.

23	<p>ٲمپراٲ ى ب يوؤ لوجى Temperamentology</p>	<p>پروفيسر آى-ايچ ز-يدى Prof. I.H. Zaidi, Dept. of Kulliyat, AMU, Aligarh 1991</p>
24	<p>كليات امور طى ى عن ه Kulliyāt Umūr Tabī‘iyya</p>	<p>اين سى پى يو ايل NCPUL, HRD Ministry, Govt. of India, 2021</p>
25	<p>كتاب المختارات Kitab al Mukhtarāt fit Tib</p>	<p>ابن پبيلبغدادى Ibn e Hubal Baghdadi, CCRUM. New Delhi. 2005</p>
26	<p>كتاب المرشد Kitāb Al Murshid (The Guide) (English translation)</p>	<p>حكيمو سيماحمد Hakim Wasim Ahmad, Markazi Publications, Jamia Nagar, Okhla, New Delhi 110025, 2021</p>
27	<p>اصول طب Usool-e-Tib</p>	<p>سيد كمال الدين حسيڻ مھداني Syed Kamaluddin Husain Hamdani, NCPUL, New Delhi</p>

**Munafeul Aza
Paper 1**

Sl.no	Topic	Hours	Learning content distribution			Weightage
			Must know	Desirable to know	Nice to know	
1.	Umoomi Manafeul Aza (General Physiology)	09 hrs	1. Define Manafeul Aza 2. Explain Homeostasis and its significance 3. Describe transport across cell membrane 4. Explain Action potential 5. Describe muscle physiology 6. Describe structure and biochemistry of macromolecules 7. Explain protein synthesis 8. Describe Acid-base balance 9. Describe water balance	Nil	Nil	
2.	Study of Khulia and Insaja (Cytology and Histology)	09 hrs	1. Explain cytology and histology 2. Explains in detail about the structure and functions of the Khulia (cell) 3. Describes the Taqseem-e-Khulia (cell division) 4. Gene mutations,	Explain about the cell death	Define and classify the cell junctions	

			<p>Chromosomal aberrations</p> <p>5. Define and classify the Insaja</p> <p>6. Describe the structure and functions of Naseej-e-Bashri (Epithelial tissues)</p> <p>7. Describe the structure and functions of Naseej-e-Wasil (connective tissues)</p> <p>8. Describe the structure and functions of Naseej-e-Azli (muscle tissues)</p> <p>9. Describe the structure and functions of Naseej-e-Asbi (nervous tissues)</p>			
3.	<i>Khoon wa Nizam-i-Damwi</i> (Blood & Haemopoetic System)	30 hrs	<p>1. Define the Khoon and explain its properties, compositions and functions</p> <p>2. Describe the Sayyal-e-Damwi Lahmi (plasma proteins)</p> <p>3. Differentiate between plasma and serum</p> <p>4. Describe the structure</p>	<p>1. Describe the site for Erythropoiesis in foetus and adult</p> <p>2. Explain the disorders related to Hamratud-Dum</p>	<p>1. Describe foetal circulation</p> <p>2. Describe the heart block</p> <p>3. Describe the circulatory shock and heart failure</p> <p>4. Demonstrate common</p>	

			<p>a morphology of Kurriyat-i-Hamra (RBCs)</p> <ol style="list-style-type: none"> 5. Explain the properties of Kurriyat-i-Hamra 6. Define and Describe the synthesis of Kurriyat-i-Hamra (Erythropoiesis) 7. Enumerate the factors necessary for Erythropoiesis 8. Describe regulation of Erythropoiesis 9. Explain the lifespan and the fate of Kurriyat-i-Hamra 10. Describes the functions of Kurriyat-i-Hamra 11. Explain the physiological & pathological variations in number of RBCs 12. Define and classify the Faqrud-Dum(anaemia) 13. Explain the morphological variations of RBCs 14. Explain the Applied 	<ol style="list-style-type: none"> 3. Describe the formation of Kurriyat-e-Baiza (leucopoiesis) 4. Define & describe the types of antigen 5. Define and describe the types of cytokines 6. Describe the applied physiology of platelets 7. Explain in detail about thrombosis 8. Explain in detail about Haemophilia, purpura and von willebrand disease. 9. Describe the 	<p>causes of deficiencies & Good food habits, healthy cooking tips to prevent deficiencies.</p>	
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			<p>physiology of ESR</p> <p>15. Explain the applied physiology of packed cell volume</p> <p>16. Explain the structure & functions of Hamratud-Dum (Haemoglobin)</p> <p>17. Describe the synthesis of Hamratud-Dum</p> <p>18. Fate/destruction of Hamratud-Dum</p> <p>19. Explain the types of Hamratud-Dum</p> <p>20. Define & classify the Kurriyat-e-Baiza (white blood cells)</p> <p>21. Explain the morphology of Kurriyat-e-Baiza</p> <p>22. Describe the normal values of total leucocytes count and differential leucocytes count</p> <p>23. Describe the properties & functions of Kurriyat-e-Baiza</p> <p>24. Explain the physiological &</p>	<p>pathophysiology of various types of shock and syncope</p> <p>10. Explain the pathological variations of blood pressure (hypertension & hypotension)</p>		
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			<p>pathological variations of Kurriyat-e-Baiza</p> <p>25. Explain and demonstrate Sahli's hemoglobinometer</p> <p>26. Define & classify the Mana-at (Immunity)</p> <p>27. Describe the development of cell mediated immunity</p> <p>28. Describe the Development of humoral immunity</p> <p>29. Define & describe the normal value, structure and composition of Aqras-e-Damwiya (platelets)</p> <p>30. Describe the properties of platelets</p> <p>31. Describe the functions of platelets</p> <p>32. Explain the physiological variations in number of platelets</p> <p>33. Explain the formation of platelets,</p> <p>34. Explain the lifespan & fate of platelets,</p>		
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			<p>35. Define & explain the stages of Haemostasis</p> <p>36. Define & explain Injmadud-Dam (coagulation of blood) and blood clotting factors</p> <p>37. Explain in detail about the stages of blood clotting</p> <p>38. Define & explain the blood clot, clot retraction and fibrinolysis</p> <p>39. Describe the mechanism preventing intravascular blood clotting</p> <p>40. Describe in detail about the Khoon ki girohbandi (various blood grouping system)</p> <p>41. Demonstrate the procedure of blood grouping & determine the ABO group</p> <p>42. Define & explain in detail about the blood transfusion</p>			
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			<p>43. Explain in detail about the transfusion reactions</p> <p>44. Explain about the Rh incompatibility & its complications in fetus</p> <p>45. Describe the exchange transfusion & autologous blood transfusion</p>			
4.	<p><i>Nizam-e-Urooq-e-Lymphavia aur Shabki-o-Bashree Baatini</i> (Lymphatic & Reticulo-endothelial system)</p>	03 hrs	<ol style="list-style-type: none"> 1. Define and explain Nizam Urooq-e-Limfavia (lymphatic system) 2. Explain the composition & formation of Rutubat-e-Lymphavia (lymph) 3. Describe in detail about the lymphatic channel & drainage of lymphatic system 4. Explain the structure & functions of lymph nodes/glands 5. Define & explain the Nizam-e-Shabki-o-Bashree Baatini (Reticuloendothelial System) 6. Classify the reticulo- 	Nil	Nil	

			<p>endothelial cells</p> <p>7. Explain the functions of reticulo-endothelial system</p> <p>Describe the structure & functions of <i>Tihal</i> (spleen)</p>			
5.	<i>Nizam-e-Dauran-e-Khoon</i> (Circulatory system)	23 hrs	<p>1. Describe the functional anatomy of the Qalb (heart) including the chambers and layers of heart wall</p> <p>2. Explain the Samamat-e-Qalb (valves of heart) & its applied physiology</p> <p>3. Explain in detail about systemic circulation, pulmonary circulation and coronary circulation</p> <p>4. Describe in detail of properties of cardiac muscle</p> <p>5. Define & explain in detail about the Daura-e-Qalbi (cardiac cycle)</p> <p>6. Describe in detail about the Aswat-e-Qalb (heart sounds) including normal & abnormal</p> <p>7. List the methods of</p>	<p>1. Describe the pathophysiology of various types of shock and syncope</p> <p>2. Explain the pathological variations of blood pressure (hypertension & hypotension)</p>	<p>1. Describe foetal circulation</p> <p>2. Describe the heart block</p> <p>3. Describe the circulatory shock and heart failure</p>	

			<p>study of heart sounds</p> <p>8. Explain and demonstrate the auscultation areas</p> <p>9. Describe in detail about the components of conductive system of the heart/junctional tissues of the heart</p> <p>10. Describe the heart rate & its Physiological & pathological variations</p> <p>11. Describe regulation of heart rate</p> <p>12. Explain the vasomotor center</p> <p>13. Explain the factors affecting the vasomotor center</p> <p>14. Define the Baroreceptors & hemoreceptors and explain their role on heart rate</p> <p>15. Define & Explain in detail about the venous return, and cardiac output</p>			
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			<p>16. Describe the stroke volume, minute volume, ejection fraction</p> <p>17. Describe the end-systolic volume & end-diastolic volume</p> <p>18. Describe the physiological variations and regulation of cardiac output.</p> <p>19. Define & explain the Barqi Qalb Nigari (Electrocardiography)(ECG)</p> <p>20. Describe the significance/usage of the ECG</p> <p>21. Describe the ECG grid, ECG leads</p> <p>22. Describe the waves of normal ECG, Intervals & segments of ECG</p> <p>23. Illustrate the Normal ECG with electrocardiograph</p> <p>24. Describe the abnormal ECG, Arrhythmias, heart block, and Myocardial changes</p>			
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			<p>25. Define the <i>Fisharud-Dam</i> (Blood pressure)</p> <p>26. Explain the physiological variations of blood pressure</p> <p>27. Describe the factors maintaining the blood pressure</p> <p>28. Explain in detail about various mechanism for regulation of blood pressure</p> <p>29. Describe the methods for blood pressure measurement</p>			
6.	Hayateen (Vitamins)	06 hrs	<ol style="list-style-type: none"> 1. Define & describe the Hayateen (Vitamins) & describe history & discovery of vitamins 2. Classify the vitamins 3. Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin A 4. Describe the Disorders related to 	Nil	Demonstrate common causes of deficiencies, Good food habits, and healthy cooking tips to prevent deficiencies.	

			<p>Vitamin A</p> <p>5. Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin D</p> <p>6. Describe the Disorders related to Vitamin D</p> <p>7. Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin E</p> <p>8. Describe the Disorders related to Vitamin E</p> <p>9. Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin K</p> <p>10. Describe the Disorders related to Vitamin K</p> <p>11. Explain in detail about the chemistry, dietary</p>			
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			<p>sources, daily requirements, & biochemical functions of Vitamin C</p> <p>12. Describe the Disorders related to Vitamin C</p> <p>13. Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin B-1(thiamine)</p> <p>14. Describe the Disorders related to VitaminB-1(thiamine)</p> <p>15. Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin B-2 (riboflavin)</p> <p>16. Describe the Disorders related to Vitamin B-2 (riboflavin)</p> <p>17. Explain in detail about the chemistry, dietary</p>			
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			<p>sources, daily requirements, & biochemical functions of Vitamin B-3(Niacin)</p> <p>18. Describe the Disorders related to Vitamin B-3</p> <p>19. Explain in detail about the chemistry, dietary sources, daily requirements & biochemical functions of Vitamin B-5 (Pantothenic acid)</p> <p>20. Describe the Disorders related to Vitamin B-5 (Pantothenic acid)</p> <p>21. Explain in detail about the chemistry, dietary sources, daily requirements & biochemical functions of Vitamin B-6 (Pyridoxine)</p> <p>22. Describe the Disorders related to Vitamin B-6 (Pyridoxine)</p> <p>23. Explain in detail about</p>			
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			<p>the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin B-7 (Biotin)</p> <p>24. Describe the Disorders related to Vitamin B-7 (Biotin)</p> <p>25. Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin B-9 (Folate/folic acid)</p> <p>26. Describe the Disorders related to Vitamin B-9 (Folate/folic acid)</p> <p>27. Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin B-12 (Cobalamin)</p> <p>28. Describe the Disorders related to Vitamin B-12</p>			
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			(Cobalamin)		
7.	Istihala (Metabolism)	17 hrs	<ol style="list-style-type: none"> 1. Describe the introduction of Istihala (metabolism) & its types 2. Explain Istihala Qa'idi (BMR), SDA, RQ, ATP, calorific value. 3. Describe in detail about the Istihala of Nishasta (metabolism of carbohydrate) 4. Describe in detail about the Glycolysis 5. Explain in detail about the pyruvate dehydrogenase complex & its reactions 6. Describe in detail about the Citric acid cycle 7. Explain about the Gluconeogenesis 8. Explain about the Glycogenesis 9. Describe the Glycogenolysis 10. Describe the Hexose Monophosphate Shunt 11. Describe the disorders 	<ol style="list-style-type: none"> 1. Explain in detail about the biosynthesis of fatty acids 2. Describe the atherosclerosis & its association with cholesterol and lipoproteins 3. Describe about the proteins & amino acid pool 4. Describe about the blood urea & its importance 5. Describe istihala-e-Madhiyat 	<ol style="list-style-type: none"> 1. Describe the fate of glycerol & fatty acid 2. Explain in detail about the synthesis & degradation of cholesterol 3. Describe the lipotropic factors

			<p>related to carbohydrate metabolism</p> <p>12. Describe in detail about the Istihala of Shahmiyat (Metabolism of Lipids)</p> <p>13. Explain Betaoxidation</p> <p>14. Describe the Triglycerols and body lipids</p> <p>15. Explain the mobilisation of fats from adipose Tissues</p> <p>16. Explain in detail about the Fatty acid oxidation</p> <p>17. Describe the ketone bodies & ketogenesis</p> <p>18. Describe the utilization & overproduction of ketone bodies</p> <p>19. Describe in detail about the ketonaemia, ketonuria, ketosis & ketoacidosis</p> <p>20. Describe the disorders of cholesterol</p> <p>21. Explain in detail about the Lipoproteins and its</p>	<p>aur istihala-e-ma'a (mineral and water metabolism)</p>		
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			<p>classification</p> <p>22. Describe the Siman- i- mufrat (obesity) & muasshir kullatul jism (BMI)</p> <p>23. Describe in detail about the Istihala- e-Humooze Shorain (Metabolism of amino acids)</p> <p>24. Explain in detail about the Transamination</p> <p>25. Explain in detail about the Deamination</p> <p>26. Describe in detail about metabolism of ammonia</p> <p>27. Describe in detail about the Urea cycle</p>			
		<p>Lh-97 hrs NLH-</p>				100 marks

**Munafeul Aza
Paper II**

Sl.no	Topic	Hours	Learning content distribution			Weightage
			Must know	Desirable to know	Nice to know	
1.	Nizam-i-Hazm (Digestive system)	17 hrs	1. Describe Tamheed-e-nizam-e-hazm (introduction of digestive system), 2. Explain Functional anatomy of primary digestive organs 3. Describe Functional anatomy of oesophagus 4. Describe Functional anatomy of stomach 5. Describe Functional anatomy of small intestines, 6. Describe Functional anatomy of large intestines 7. Describe Functional anatomy of secondary digestive organs –salivary glands, 8. Describe Functional anatomy of liver,	1. Describe Functional anatomy of teeth, 2. Describe Functional anatomy of gall bladder,	1. Demonstrate Ghudood-e-meddi ki khurd beeni saqht (histology of gastric glands), 2. Describe Rutubat-e-medi ki itlaqi ehmiyat (applied physiology of gastric juice)	

			<p>9. Describe Functional anatomy of pancreas</p> <p>10. Demonstrate Ghudood-e-luabiya ki Khurd beeni saqht (histology of salivary glands),</p> <p>11. Explain Luab-e-dahan ki Khususiyat aur tarkeeb (characteristics & composition of saliva)</p> <p>12. Describe Luab-e-dahan ke Tarashshoh ki tanzeem aur afaal (regulation of secretion of saliva and functions),</p> <p>13. Explain Luab-e-dahan ki itlaqi ehmiyat (applied physiology of saliva)</p> <p>14. Describe Rutubat-e-medi ki Khususiyat aur tarkeeb(characteristi</p>		
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			<p>cs & composition of gastric juice)</p> <p>15. Explain Rutubat-e-medi ke tarashshoh ki tanzeem aur afaal (regulation of secretion and functions of gastric juice),</p> <p>16. Demonstrate Banqiras ki Khurd beeni saqht (histology of pancreas),</p> <p>17. Describe Rutubat-e-banqras ki Khususiyat aur tarkeeb (characteristics & composition of pancreatic juice)</p> <p>18. Explain Rutubat-e-banqiras ke tarashshoh ki tanzeem aur afaal (regulation of secretion and functions of pancreatic juice),</p>			
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			<p>19. Describe Rutubat-e-banqiras ki itlaqi ahmiyat (applied physiology of pancreatic juice)</p> <p>20. Describe Rutubat-e-safravi ki khususiyat aur tarkeeb (characteristics & composition of bile)</p> <p>21. Explain Rutubat-e-safravi ke tarashshoh ki tanzeem aur afaal (regulation of secretion and functions of bile),</p> <p>22. Describe Rutubat-e-safravi ki itlaqi ahmiyat (applied physiology of bile)</p> <p>23. Explain Rutubat-e-mayvi ki tarkeeb, tarassho aur afaal (composition, regulation of secretion and functions of succus entericus)</p>		
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			<p>24. Describe Majra-ghizai ki harkat (movements of alimentary canal) – mastication: definition, Muscles of mastication, mechanism, benefits of prolong chewing & applied physiology.</p> <p>25. Explain Amal-izdrad (Deglutition: definition, phases & applied physiology, safe deglutition tips)</p> <p>26. Describe Movements of oesophagus & their applied physiology</p> <p>27. Describe Movements of stomach & their applied physiology</p> <p>28. Describe Qai (Vomiting): definition, causes, types series of events during</p>		
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			<p>vomiting, home management tips</p> <p>29. Explain Movements of small intestines & their applied physiology</p> <p>30. Describe Movements of colon & their applied physiology</p> <p>31. Explain Fuzla ka banna aur iqhraj (formation of faeces and defecation),</p> <p>32. Describe Nishashta ka hazm aur injezab (digestion & absorption of carbohydrates),</p> <p>33. Describe Shorain ka hazm aur injezab (digestion & absorption of proteins)</p> <p>34. Describe Sheham ka hazm aur injezab (digestion & absorption of lipids)</p> <p>Describe Paani ka</p>			
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			injezab (absorption of water).			
2.	Nizam-e-Tanaffuss (Respiratory System)	16 hrs	<ol style="list-style-type: none"> 1. Describe Mukhtalif tanaffussi aaza ki tamheed (introduction of respiratory system/organs) 2. Describe and Demonstrate Azlaat-e-tanaffuss ki Khurd beeni sakht aur unke afaal (histological structure & functions of respiratory muscles), 3. Explain Tanaffus ka meekaniyah (mechanism of breathing) 4. Demonstrate Oxygen aur carbon dioxide ki muntaqeeli 	Nil	Nil	

			<p>(transport of oxygen & carbon dioxide),</p> <p>5. Describe Riya aur insaja may gason ka tabadila (gaseous exchange in lungs and tissues),</p> <p>6. Explain Tanaffuss ke marakiz (centers of respiration),</p> <p>7. Demonstrate Masnooi tanaffuss aur inke muqhtalif tareeqe (artificial respiration and its methods),</p> <p>8. Describe Ahjame-e-reviyyah/ Jasamat-e-reviya (pulmonary volume),</p>		
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			<p>9. Explain Waqaat-e-reviya (pulmonary capacities)</p> <p>10. Describe Usre tanaffuss (dyspnoea), definition, causes, types, clinical presentation</p> <p>11. Describe Qillat-e-baad (anoxia)</p> <p>12. Describe Dushwaar-e-tanaffuss (apnoea)</p> <p>13. Describe Izdiyaad-e-tanaffuss (hypercapnia)</p> <p>14. Explain Sathemurtafa aur gehre paani ke feliyati asraat (physiological effect of high altitude & under water).</p>			
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3.	Nizam-e-Ikhraj (Excretory system)	14 hrs	<ol style="list-style-type: none"> 1. Describe the structure and function of kulliya (kidney) 2. Explain the non-excretory functions of kidney 3. Describe the structure and function of (kulvi ikai) nephron 4. Describe the structure and function of aljihazul mujawiru lilkubaiba (Juxta glomerulus apparatus) 5. Explain the renin-angiotensin system 6. Describe the mechanism of paidish-e- bowl (urine formation involving processes of Filtration, tubular reabsorption and secretion. 7. Explain the 	<ol style="list-style-type: none"> 1. Describe the kulliyavi doran-e-khoon (renal circulation) 2. Define & describe shrah at tarsheehul kubabibi (glomerular filtration rate) & factors affecting GFR 3. List the indications of dialysis. 4. Interpret & analyze RFT 	<ol style="list-style-type: none"> 1. Enumerate the steps to measure renal blood flow. 2. Explain renal clearance mechanisms 3. Describe cystometry and urogram 4. Describe urinary bladder dysfunctions 5. Explain the mechanism of action of diuretics 6. Describe artificia l kidney, and renal transplantatio n. 7. List the indications and need of renal Transplantatio 	
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			<p>counter-current mechanism of urine concentration.</p> <p>8. Explain the tubular reabsorption process and process of tubular secretion.</p> <p>9. Describe the methods to measure GFR, and other clearance tests</p> <p>10. Describe renal Regulation of fluid and electrolytes</p> <p>11. Describe the role of kidney in maintaining body temperature</p> <p>12. Explain physiology of micturition and its abnormalities</p> <p>13. Bowl ka radde-amalaur wazn-e-makhsoos (reaction and specific gravity of</p>		<p>n</p> <p>8. Describe and discuss advantages & complications of renal transplantation.</p>	
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			urine), 14. Enumerate & describe the renal function tests 15. Describe unani concept of istifragh-e-tabayi 16. Describe unani concept of idrar-e-bowl. 17. Describe unani concept of ihtibas-e-bowl			
4.	Nizam-e-Jild (Integumentary system)	04 hrs	1. Describe Jild ki saqht aur afaal (structure and functions of skin) [integument], 2. Explain Arq (sweat) 3. Describe Hararat-e-badaniya ke tavazun mein jild ka kirdar (role of skin in regulation of body temperature)	Nil	Nil	

			4. Describe Ghair tabiyyee hararat aur qillate-hararat (abnormal and sub- normal temperature).			
5.	Nizam-e-Asab (Nervous system)	19 hrs	<ol style="list-style-type: none"> 1. Describe the functional anatomy and physiological properties of the nerves 2. Describe organization of the nervous system into central NS, peripheral NS, somatic NS & Autonomic NS. 3. Describe and define action potentials in nervous system 4. Outline the cell types present in the nervous system 5. Describe structural and functional morphology of 	<ol style="list-style-type: none"> 1. Outline and classify the various Describe in detail, the physiological significance of reflexes neurotransmitters 2. Outline the factors controlling the formation and circulation of CSF 3. Define and classify sleep 4. Explain stages of sleep 5. Describe the structure and 	<ol style="list-style-type: none"> 1. List the factors affecting conduction velocity in a nerve. 2. Describe organization and the functional anatomy of cerebellum 3. Describe physiological changes during Sleep 4. Outline the pathophysiology of altered taste and smell 	

			<p>neurons</p> <p>6. Describe the different types of neurons and neuroglia</p> <p>7. Differentiate between myelinated and non-myelinated neurons and between white matter and grey matter.</p> <p>8. Define and describe the terms 'nuclei' and 'ganglia'</p> <p>9. Define the term nerve fibres and state the types of fibres</p> <p>10. Outline the types of fibres in a mixed peripheral nerve.</p> <p>11. Define the term mashbak/ittisal (synapse)</p> <p>12. Differentiate</p>	<p>functions of taste buds</p> <p>6. Describe determination of sound Frequency</p> <p>7. Explain formation and outflow of aqueous humour</p> <p>8. Explain mechanics of colour detection</p> <p>9. Describe light and dark Adaptation</p> <p>10. Describe eye movements and their muscular and neural Control</p> <p>11. Explain fusion of the visual images from The two eyes</p>	<p>5. Describe brief physics of sound and concept of the decibel scale</p> <p>6. Describe threshold for hearing sound, and list it for different Frequencies</p> <p>7. Describe organization and function of the Visual cortex</p>	
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			<p>between electrical & chemical synapse</p> <p>13. Describe chemical synapse transmission</p> <p>14. Define the term asabi mursalat (neurotransmitters)</p> <p>15. Describe functioning of neurotransmitters</p> <p>16. Describe organization and functional anatomy of CNS</p> <p>17. Describe functions of CNS</p> <p>18. Explain integrative functions of CNS and levels of CNS</p> <p>19. Define & classify sensations</p> <p>20. Describe sensory modalities</p> <p>21. List the sensory receptor for each</p>			
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			<p>modality of sensation</p> <p>22. Describe pain and temperature receptors</p> <p>23. Describe touch receptors</p> <p>24. Describe receptors for proprioception</p> <p>25. Describe sensory pathways for Transmitting somatic signals.</p> <p>26. Describe ascending and descending tracts</p> <p>27. Describe the organizations of the motor system.</p> <p>28. Define & describe UMN & LMN LESIONS</p> <p>29. Define and classify the term 'reflex'</p> <p>30. Illustrate the components of a reflex arc</p>		
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			<p>31. Diagrammatically Describe functions of cerebellum</p> <p>32. Define the term basal ganglia.</p> <p>33. Outline the forming elements of the basal ganglia</p> <p>34. Explain the physiological role and significance of basal ganglia.</p> <p>35. Define the autonomic nervous system</p> <p>36. Describe classification of the autonomic nervous system</p> <p>37. Outline the functions of the autonomic nervous system</p> <p>38. Differentiate between sympathetic and parasympathetic</p>			
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			<p>nervous system</p> <p>39. Describe physiological anatomy of spinal cord</p> <p>40. Describe spinal nerves and nerve roots</p> <p>41. Describe arrangements of white and grey matter in spinal cord</p> <p>42. Describe CSF and its composition</p> <p>43. Describe characteristics and functions of CSF</p> <p>44. Define and classify pain</p> <p>45. Describe pathways and mechanism of pain</p> <p>46. Describe quwwat-e- nafsanniyah</p> <p>47. Describe hawas-e-khamsa zahira</p>			
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			<p>wa batina</p> <p>48. Describe & demonstrate EEG</p> <p>49. Elicit various superficial and deep reflexes and indicate their significance.</p> <p>50. Outline location of taste buds and mechanism of stimulation of taste bud</p> <p>51. Describe pathways for taste transmission</p> <p>52. Define primary taste sensations and describe taste transduction</p> <p>53. Outline the taste receptors</p> <p>54. Describe olfactory receptors and mechanism of excitation of the olfactory cells</p> <p>55. Describe olfactory pathways and</p>		
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			<p>transmission.</p> <p>56. Explain olfactory transduction</p> <p>57. Describe rapid adaptation of olfactory sensations</p> <p>58. Explain threshold for olfactory sensations</p> <p>59. Describe and discuss functional anatomy of ear</p> <p>60. Describe tympanic membrane and the Ossicular system</p> <p>61. Explain conduction of sound from the Tympanic membrane to the cochlea</p> <p>62. Describe transmission of sound through Bone</p> <p>63. Describe</p>			
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			<p>functional anatomy of the Cochlea</p> <p>64. Explain transmission of sound waves in the cochlea</p> <p>65. Describe function of the organ of corti</p> <p>66. Describe auditory nervous pathways and their mode of functioning</p> <p>67. Explain functions of the cerebral cortex in Hearing</p> <p>68. Explain determination of the direction From which sound comes and neural mechanisms for detecting sound direction</p> <p>69. Outline pathophysiology of deafness</p> <p>70. Outline &</p>			
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			<p>describe various tests of hearing</p> <p>71. Describe the physiological anatomy of the eye and its accessory Structures</p> <p>72. Describe anatomy and function of the retina</p> <p>73. Explain the formation of image on the retina</p> <p>74. Explain mechanism of “accommodation “and its significance in eye optics</p> <p>75. Describe visual acuity</p> <p>76. Describe and classify Intraocular fluids</p> <p>77. Define intraocular pressure and describe its physiological and</p>			
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			<p>clinical significance</p> <p>78. Describe photoreceptors and photochemistry of vision</p> <p>79. Define rhodopsin-retinal Visual cycle and mechanism of Excitation of the rods</p> <p>80. Describe colour vision and role of Cones</p> <p>81. Describe visual pathways</p> <p>82. Define hyperopia, myopia, astigmatism, presbyopia, and strabismus</p> <p>83. Describe and discuss the physiological basis of lesion in visual pathway</p> <p>84. DESCRIBE in</p>			
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			<p>detail the errors of refraction and outline the ways to correct refractive errors of eye</p> <p>85. Demonstrate steps to test distant and near vision Outline the tests of colour vision</p>			
6.	<i>Nizam-e-Ghudoode-la Qanatiyah (Endocrine system)</i>	19 hrs	<ol style="list-style-type: none"> 1. Describe ghudoode-la qanatiyah endocrine glands) 2. Define rasilat (hormones) & Classify the hormones based on their chemical nature 3. Discuss & describe synthesis of hormones 4. Describe the general properties of rasilat. 5. Explain the mechanism of 	<ol style="list-style-type: none"> 1. Discuss the disorders of ADH secretion 2. Explain syndrome of inappropriate hypersecretion of antidiuretic hormone (SIADH) 3. Explain in detail the regulation of hormones released from adrenal cortex 4. Describe the physiological anatomy of Ghudda sa'atariyah (thymus) and ghhudda-e- 	<ol style="list-style-type: none"> 1. Describe radioimmunoassay 2. Describe secretions of thymus and pineal gland and their functions 3. Discuss the physiology of Circadian rhythm 	

			<p>action of hormones.</p> <p>6. Describe cAMP second messenger system.</p> <p>7. Describe the calcium metabolism and physiology of bone</p> <p>8. Discuss the hormones for calcium metabolism, their secretion and regulation</p> <p>9. Describe the jar-i-darqin (parathormone) and its functioning in calcium metabolism</p> <p>10. Discuss the physiological anatomy of taht-us-sarir (hypothalamus)</p>	<p>sanobariyah (pineal gland)</p>		
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			<p>11. Enumerate the hormones released from Hypothalamus & discuss their roles</p> <p>12. Describe the functional anatomy of ghudda nukhamiyah (pituitary),</p> <p>13. List the hormones secreted from ghudda nukhamiyah muqaddam (anterior pituitary) & discuss their functions.</p> <p>14. Describe the synthesis & REGULATION of the rasila-i-namu (growth hormone)</p> <p>15. Describe the physiological Functions of the growth hormone</p>			
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			<p>16. Describe abnormalities of Growth hormone secretions</p> <p>17. Describe the physiological anatomy of posterior Pituitary.</p> <p>18. List the hormones released from posterior pituitary.</p> <p>19. Outline the synthesis, Regulation and actions of ADH</p> <p>20. Outline the synthesis, Regulation and actions of Oxytocin</p> <p>21. Describe functional anatomy of ghudda-e darqiyyah</p> <p>22. Describe the synthesis and secretion of the</p>			
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			<p>darqin (Thyroid) metabolic hormones</p> <p>23. Describe physiological effects of darqin (thyroid hormone)</p> <p>24. Enumerate the signs and symptoms of hyper & hypo secretions of thyroid hormones</p> <p>25. Describe goitre and discuss its patho- physiology</p> <p>26. Describe the physiological anatomy of ghudda-e- kazriyyah (adrenal cortex and Medulla)</p> <p>27. Enumerate the hormones released from adrenal cortex</p> <p>28. Describe the functions of the</p>		
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			<p>hormones released from adrenal cortex</p> <p>29. Explain the disorders of adrenal cortex hormones.</p> <p>30. Describe the Physiological anatomy of banqiras (pancreas).</p> <p>31. Outline the endocrine hormones secreted from pancreas</p> <p>32. Describe the synthesis, regulation and functions of insulin and glucagon</p> <p>33. Discuss the patho-physiology, signs and symptoms of diabetes Mellitus</p> <p>34. Describe glucose</p>			
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			tolerance test and interpretation of the results			
7.	Nizam-e-Tauleed (Reproductive system)	14 hrs	<ol style="list-style-type: none"> 1. Describe sex differentiation & determination 2. Discuss the role of gametes & chromosomes in sex differentiation 3. Describe and discuss bulooghat (puberty): onset, progression and stages. 4. Summarize physical & hormonal changes during puberty 5. Describe and Outline the steps involved in spermatogenes 	<ol style="list-style-type: none"> 1. Outline disorders of puberty 2. Describe the physiological anatomy of nizam-e-tauleed mardana(male reproductive system) 	<ol style="list-style-type: none"> 1. Describe gonadal differentiation , and psychological differentiation 2. Outline chromosomal abnormalities , hormonal abnormalities and their features (sex- linked) 3. List & discuss the abnormal conditions like Cryptorchidism , Hypo & hypergonadism 4. Describe quwwate tanasulliya in 	

			<p>is</p> <p>6. Describe the structure of rasilat-i-khusya (testosterone) and describe its synthesis, metabolism, transport and actions.</p> <p>7. Describe the regulation of testosterone secretion</p> <p>8. Describe the physiological anatomy of ghudda-e-madhi (prostate) and seminal vesicles.</p> <p>9. Describe the role of prostate and seminal vesicles in reproduction.</p> <p>10. Describe the</p>		<p>general</p>	
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			<p>composition of semen</p> <p>11. Describe the cause, mechanism of erection and ejaculation</p> <p>12. Describe physiological anatomy of nizam-e-tawleed zanana (female reproductive system)</p> <p>13. Describe the menstrual cycle.</p> <p>14. Describe the changes that occur during the menstrual cycle.</p> <p>15. Describe physiological anatomy and functions of ovaries</p>			
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			<p>16. Describe the regulation of ovarian functions</p> <p>17. Discuss the general structures and functions of rasila muwallid-i-bayda (oestrogen) and rasila mu'in al-haml (progesterone)</p> <p>18. Describe ibadha (ovulation).</p> <p>19. Describe the baar-aawari (fertilization), isteqrar-e-hamal (implantation) and placenta formation</p> <p>20. Describe the placenta and its functions</p> <p>21. Enumerate the</p>			
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			<p>hormones secreted from placenta and their functions</p> <p>22. Describe the physical and hormonal changes that accompany pregnancy</p> <p>23. Describe mechanism and Control of wiladat (parturition)</p> <p>24. Describe physiology of ilban/ amal-e-raza'at (lactation)</p> <p>25. Describe functional anatomy of mammary gland</p> <p>26. Describe breast development and milk production.</p>			
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			<p>27. Define Iyas (menopause)</p> <p>28. Explain the hormonal changes and their effects during perimenopause and menopause</p> <p>29. Enumerate physiological effects of perimenopause and menopause</p> <p>30. Unani concept of tawleed-e-mani wa tawleed-e-Aaza</p>			
<p>Total teaching hours LH-103hrs NLH-62 hrs</p>						<p>Total Marks 100</p>

Non Lecture Activities of Manafeul Aza

	Sr No	List non lecture Teaching-Learning methods	No of Activities
A		Activities in classroom	
	1	symposium	20
	2	Seminar	02
	3	Early Clinical Exposure	02
	4	Project Work	03
	5	Problem Based Learning	09
	6	Discussion / small Group discussion	29
	7	Tutorials	09
	8	Small group teachings	08
	9	Educational videos	10
	10	Animation clips	04
	11	Role play	02
	12	Concept maps	08
	13	Demonstration	04
	14	Self-directed learnings	08
	15	Activity Learning	01
	16	Simulations	01

		Subtotal - 120	
B		Activities in practical	280
		Total	400

Practical Physiology

150 Marks

Teaching hours – 280

Teaching Learning Process

Sl. No.	Skills	Duration	Learning methods
01.	General physiology	6 Hours in a week	Demonstration of specimen, conduction of blood and urine analysis, seminars, group discussions, drawing and writing work in record book
	Stethoscope		
	Microscope		
	Body Temperature		
02.	Respiratory System		
	Respiratory sounds		
	Lung volume/capacities		
03.	Digestive System		
	BMI		
	Bowel sounds		
04.	Haematology		
	Types of blood samples		
	Blood Plasma		

	Serum		
	Blood cells		
	Erythrocytes		
	Leucocytes		
	Haemoglobin		
	Blood groups		
	Blood Indices		
05.	Urology		
	Physical examination of urine		
	Microscopic examination of urine		
	Chemical examination of urine		
06.	Cardiovascular system		
	Radial pulse		
	Blood Pressure		
	ECG		
	Heart sounds		
07.	Nervous System		

	EEG		
	NCT		
08.	Special Senses		
	Perimetry		
	Visual acuity		
	Colour vision		
	Conduction of sound		

Assessment paper 1

Sl. No.	Topic	Marks	Question Type		
			MCQ	SAQ	LAQ
01.	Umoomi ManafeulAza (General Physiology)	10	5	1	0
02.	Study of Khulia and Insaja (CytologyandHistology)	15	5	0	1
03.	Khoon wa Nizam-i-Damwi (Blood & HaemopoeticSystem)	30	10	2	1
04.	Nizam-e-Urooq-e-Lymphavia aur Shabki-o-Bashree Baatini (Lymphatic & Reticulo-endothelial system)	5	0	1	0
05.	Nizam-e-Dauran-e-Khoon (Circulatory system)	20	0	2	1
06.	Hayateen (Vitamins)	10	0	2	0
07.	Istihala (Metabolism)	10	0	0	1
Total marks		100	20	40	40

Assessment Paper – II

Sl. No.	Topic	Marks	Question Type		
			MCQ	SAQ	LAQ
1.	Nizam-i-Hazm (Digestive system)	15	0	1	1
2.	Nizam-e-Tanaffuss (Respiratory System)	15	0	1	1
3.	Nizam-e-Ikhraj (Excretory system)	15	5	2	0
4.	Nizam-e-Jild (Integumentary system)	10	5	1	0
5.	Nizam-e-Asab (Nervous system)	15	5	2	0
6.	Nizam-e-Ghudood-e-la Qanatiyah (Endocrine system)	15	5	0	1
7.	Nizam-e-Tauleed (Reproductive system)	15	0	1	1
Total		100	20	40	40

Calculation of Internal assessment

TERM	PERIODICALASSESSMENT				TERMTES T	TERMASSESSMENT	
	A	B	C	D	E	F	G
	1 (20)	2 (20)	3 (20)	Average (A+B+C/3)20	Term Test (MCQ+SA Q+LAQ) And Practical (Maximum 20)	Sub Total	Term Assessment
FIRST						D+E	D+E/2
SECOND						D+E	D+E/2
THIRD					NIL	D	D
Final IA	Average of Three Term Assessment Marks as Shown in 'G' Column						

Munafeul Aza
Question Paper Blue print
Paper 1- 100 Marks

Multiple choice Questions

20 X 1 = 20 Marks

No. Of questions	Topic
5	Topic 1- Umoomi ManafeulAza (General Physiology)
5	Topic 2- Study of Khulia and Insaja CytologyandHistology)
10	Topic 3- <i>Khoon wa Nizam-i-Damwi</i> (Blood & Haemopoetic System)

Short Answer Questions

8 X 5 = 40 Marks

No of Questions	Topics
1	Topic 1- Umoomi ManafeulAza (General Physiology)
2	Topic 3- <i>Khoon wa Nizam-i-Damwi</i> (Blood & Haemopoetic System)
1	Topic 4- <i>Nizam-e-Urooq-e-Lymphavia aur Shabki-o-Bashree Baatini</i> (Lymphatic & Reticulo-endothelial system)
2	Topic 5- <i>Nizam-e-Dauran-e-Khoon</i> (Circulatory system)
2	Topic 6- <i>Hayateen</i> (Vitamins)

Long Answers Questions**4 X 10 = 40 Marks**

No. of Questions	Topics
1	Topic 2- Study of Khulia and Insaja (Cytology and Histology)
1	Topic 3- <i>Khoon wa Nizam-i-Damwi</i> (Blood & Haemopoetic System)
1	Topic 5- <i>Nizam-e-Dauran-e-Khoon</i> (Circulatory system)
1	Topic 7- <i>Istihala</i> (Metabolism)

Munafeul Aza**Question Paper Blue print****Paper 2- 100 Marks****Multiple choice Questions****20 X 1 = 20 Marks**

No. of questions	Topics
5	Topic 3- <i>Nizam-e-Ikhranj</i> (Excretory system)
5	Topic 4- <i>Nizam-e-Jild</i> (Integumentary system)
5	Topic 5- <i>Nizam-e-Asab</i> (Nervous system)
5	Topic 6- <i>Nizam-e-Ghudoode-la Qanatiyah</i> (Endocrine system)

Short Answer Questions**8 X 5 = 40 Marks**

No. of questions	Topics
1	Topic 1- Nizam-i-Hazm (Digestive system)
1	Topic 2- Nizam-e-Tanaffuss (Respiratory System)
2	Topic 3- Nizam-e-Ikhraj (Excretory system)
1	Topic 4- Nizam-e-Jild (Integumentary system)
2	Topic 5- <i>Nizam-e-Asab</i> (Nervous system)
1	Topic 7- <i>Nizam-e-Tauleed</i> (Reproductive system)

Long Answers Questions**4 X 10 = 40 Marks**

No. of Questions	Topics
1	Topic 1- Nizam-i-Hazm (Digestive system)
1	Topic 2- Nizam-e-Tanaffuss (Respiratory System)
1	Topic 6- <i>Nizam-e-Ghudoode-la Qanatiyah</i> (Endocrine system)
1	Topic 7- <i>Nizam-e-Tauleed</i> (Reproductive system)

Distribution of Practical Examination

Sl. No	Heads	Marks
1.	Practical (TotalMarks100)	
	Spotting: Microscopic Identification of Histological Slides (05 Slides)	25
	Experiment: Urine Examination/ Haematology Tests (any 01 Experiment)	20
	Measurements: Blood Pressure/ Spirometry/ Perimetry/ Visual Field/ IshiharaTest /Hearing Conduction Test (any 01 Measurement)	20
	Electrophysiology: ECG/EEG/NCT(any 01 Test)	25
	RecordBook	10
2.	Viva Voce	20
3.	Internal	20
4.	Electives	10
Total Marks		150

Theory Question Paper Pattern
Munafeul aza
PAPER-I

Time: 3 Hours

Maximum Marks: 100

INSTRUCTIONS: All questions compulsory

		Number of Questions	Marks per question	Total Marks
1.	Multiple Choice Questions (MCQ)	20	1	20
2.	Short answer questions(SAQ)	8	5	40
3.	Long answer questions(LAQ)	4	10	40
Maximum Marks				100

Theory Question Paper Pattern
Munafeul aza
PAPER-II

Time:3 Hours

Maximum Marks: 100

INSTRUCTIONS: All questions Compulsory

		Number of Questions	Marks per question	Total Marks
1.	Multiple Choice Questions (MCQ)	20	1	20
2.	Short answer questions(SAQ)	8	5	40
3.	Long answer questions(LAQ)	4	10	40
Maximum Marks				100

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Rajiv Gandhi University of Health Sciences,



TASHREEHUL BADAN

SUBJECT CODE: UNIUG TB

HUMAN ANATOMY

**Applicable from 2021-2022 batch on words for five years or until further notification
by NCISM, whichever is earlier**

I professional BUMS

Subject Code: UNIUG-TB

Tashreehul Badan

KEY POINTS

Total number of Teaching hours: 600			
Lecture hours (LH) - Theory		200 Hours	200 Hours (LH)
Paper I	100 Hours		
Paper II	100 Hours		
Non-Lecture hours (NLH) – Theory		120 Hours	400 Hours (NLH)
Paper I	60 Hours		
Paper II	60 Hours		
Non-Lecture hours (NLH) - Practical		280 Hours	

Examination (Papers & Mark Distribution)					
Item	Theory Component Marks	Practical Component Marks			
		Practical	Viva	Elective	IA
Paper I	100	100	20	10	20
Paper II	100				
Sub-Total	200	150			
Total marks	350				

Preface

While discussing the basics of medical science in any system of medicine *Tashreehul Badan* (Human Anatomy) is the most basic and fundamental subject and Sound knowledge of *Tashreehul Badan* is the main building material of a scholar of medical science. One of the differences between an expert and ordinary professional is the in depth understanding of basic subjects. *Tashreehul Badan* is one of the most fundamental of all medical sciences because of its involvement with structure of human body. *Tashreehul Badan* including general, regional and systemic, is primarily the scientific study of the morphology of the

human body. It also provides the basic framework and vocabulary used in all descriptions and communications about the body. *Tashreehul Badan* can be taught regionally or systemically, that is, respectively, studying *Tashreehul Badan* by bodily regions such as the head, neck, thorax, abdomen and limbs or studying by specific systems, such as the nervous or respiratory systems. Students as well as the healthcare professionals, sportsmen or professionals collaborating with the medical field will find it impossible to make progress without the sound knowledge of *Tashreehul Badan*. Unani and other Professionals associated with the regimens of pain relief finds it most difficult to cure a specific pain without the knowledge of macroscopic and microscopic *Tashreeh* of that area. A thorough working knowledge of *Tashreehul Badan* is required by physicians, especially surgeons and doctors working in some diagnostic specialties, such as histopathology and radiology. Good teaching methods are the backbone for the understanding of any subject and these should be chosen very carefully according to the needs of the subject and as far as *Tashreehul Badan* is concerned there are lots of method of teaching and learning *Tashreehul Badan* in which some of the important ones are human structure models, skeletons, textbooks, diagrams, photographs, lectures and tutorials, and in addition, medical students generally also learn gross anatomy through practical experience of dissection and inspection of cadavers. Methods have also improved dramatically, advancing from examination through dissection of cadavers to technologically complex techniques developed including X-ray, ultrasound, and MRI. The study of microscopic anatomy (or histology) can be aided by practical experience examining histological preparations (or slides) under a microscope. So, in a nutshell *Tashreehul Badan* is a complementary basic medical science, which is taught to medical students in their first year at medical school so that their intellectual pursuits regarding medicine are enhanced.

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First BUMS Course Code and Names of Course

	Course code	Name of Course
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	UNIUG-TB	Tashreehul Badan (Human Anatomy)

Table 1- Course outcomes and matched Program outcomes

SR1 CO No	A1 Course Outcome (CO) UNIUG-TB At the end of the course UNIUG-TB, the student should be able to-	B1 Course Outcome matched with program outcomes
CO1	Describe fundamental aspects of Tashreeh ul badan تشريح البدن (Human Anatomy).	PO1, PO2
CO2	Understand the discuss Satehi Tashreeh سطحي تشريح (Surface Anatomy) along with Jarahiyati جراحياتي (Surgical) importance as well as Iqlaqi Tashreeh اطلاق تشريح (Applied Anatomy).	PO2,PO7,PO3
CO3	Describe and role of Tashreeh ul badan تشريح البدن (Human Anatomy) in Jarahat جراحات (Surgery).	PO2,PO7,PO8
CO4	Discuss role of Tashreeh ul badan تشريح البدن (Human Anatomy) in Tashkhees-e-marz تشخيص مرض (diagnosis of a disease) in Matab مطب clinic.	PO4,PO2,PO5
CO5	Understand and interpret radiological investigations more efficiently due to his/her detailed training in Tashreeh e shuaee تشريح شعاعية (Radiological anatomy).	PO2,PO4,PO6
CO6	Understand and read Nabz نبض (pulse) efficiently with the help of detailed training in Ilm e urooqi علم عروقي (Angiology).	PO2,PO4,PO6
CO7	Discuss Ilaj bit tadbeer علاج بالتدبير (Regimenal therapy) procedures with knowledge of Ilmulezaam علم العظام (Osteology), Ilm e urooqi علم عروقي (Angiology) as well as Ilmulazlat علم العضلات (Myology)	PO2,PO7,PO8,PO3

Table 2: Contents of Tashreehul Badan - Paper – I (Theory)

	A2 List of Topics UNIUG-TB	B2 Term	C2 Marks	D2 Lecture hours	E2 Non-Lecture hours
1	(Tashreeh ul Badan ka ta'aruf) ن تشریح البد ف کاتعار Introduction of Human Anatomy (General Anatomy)	I	10	10	10
	(a) <i>Nizame Jismani ka mukhtasar ta' aruf</i> نظا مجسمانی کا مختصر تعارف A brief description of systems of the Body)				
	(b) <i>Tashreehi waz'a wa Muta'alliqa istilahat</i> تشریحی وضو متعلقہ اصطلاحات (Anatomical position and related terminologies)				
	(c) <i>Jild aur uske zawaid</i> جلد اور اسکے زوائد (Skin and its appendages)				
	(d) <i>Lafaife satahiya wa ghaairah</i> لغائف سطحیہ و غائرہ (Superficial and deep Fasciae)				
	(e) <i>Autar, Rabatat aur Akyase zulaliya</i> او تار رباطات اور اکیاس زلالیہ (Tendon, Ligaments and Bursae)				
	(f) <i>Izaam: Aqsaam, af'aal wa ta'azzum</i> عظام، اقسام، افعال و تعظم Bones: (Types, functions and ossification)				
	(g) <i>Azlaat: Aqsaam wa af'aal</i> عضلات، اقسام و افعال Muscles (Types and functions)				
	(h) <i>Mafasil, Aqsaam wa harakaat</i> مفاصل، اقسام و حرکات (Joints, Types and movements)				
	(i) <i>Ilmul janeen wa nasliyat</i> علم الجنین و نسلیات (General Embryology and Genetics)				
2	Raas راس (Head)	I	20	10	5
	(a) <i>Jumjumah aur uske manaazir ka aam bayaan</i> جمجمہ اور اسکے مناظر کا بیان (General description and views of Skull).				

	(b) Mufsal Sudughi fakki مفصل صدغی فکی (Temporomandibular joint)				
	(c) Jaufe Fam, Lisaan, Asnaan wa Halaq جوف فم، لسان، اسنان و حلق (Oral Cavity, Gums, Teeth and Pharynx)				
	(d) Anaf, Jaufe Anf wa Khalaye Hawaiiyah انف، جوف انف و خلايا بوانیه (Nose, nasal cavity and Paranasal sinuses)				
	(e) Uzn اذن (Ear)				
	(f) Mashmoolate Mahjar مشمولات محجر (Contents of Orbit): Aj'faan اجفان (Eyelids)				
	(g) Aalate dam'a آلات دمع (Lacrimal apparatus) and Muqlatul Ain مقلّة العين (Eye ball)				
	(h) Ghudade Lu'abiya غدد لعابیه (Salivary glands)				
3	Unq عنق (Neck)	II	10	10	5
	(a) Musallasate Unq ka mukhtasar bayaan مثلثات عنق کا مختصر بیان (Brief description of Triangles of the Neck)				
	(b) Azlaate Unq عضلات عنق (Muscles of the Neck)				
	(c) Urooq wa a'asab عروق و اعصاب (Vessels and nerves)				
	(d) Hanjarah wa Qasbatur riyah حنجره و قصبه الریه (Larynx and Trachea)				
	(e) Mari مری (Oesophagus)				
	(f) Raas wa Unq ke Ghudade Lymphawiyah راس و عنق کے غدد لمفاوی (Lymph nodes of Head and neck)				

	(g) Fuqrata Unq فقرات عنق (Cervical Vertebrae)				
	(h) Ghudade Darqiyah wa Jaar darqiyah غدد درقيه وجار درقيه (Thyroid and parathyroid glands)				
4	Nizame A'asab نظام اعصاب (Nervous system)	II	10	15	5

	(a) Aghshiya-e-Dimagh, Dimagh aur Nukha'a ka mukhtasar bayaan اغشيه دماغ، دماغ اور نخاع کا مختصر بيان (A brief description of Meanings, Brain and spinal cord)				
	(b) A'asabe Nukha wa Dimaghi اعصاب نخاع و دماغ (Cranial and Spinal nerves)				
5	Sadr صدر (Thorax)	II	30	35	20
	(a) Jaufe Sadr جوف صدر (Thoracic Cavity)				
	(b) Azla'a, Azmul Qas wa fuqraate sadr اضلاع عظم القص و فقرات صدر (Ribs, Sternum and Thoracic Vertebrae)				
	(c) Azlaate sadr عضلات صدر (Muscles of the Thorax)				
	(d) Ghishaur riyah wa riyatain غشاءالريه و ريتين (Pleura and Lungs)				
	(e) Hijabe munassifussadr wa mashmoolat حجاب منصف الصدر و مشمولات (Mediastinum & its contents)				
	(f) Urooq wa A'asab aur majrae sadr عروق و اعصاب اور مجرى ص در (Vessels, Nerves and Thoracic duct)				
	(g) Ghilaful qalb wa Qalb غلاف القلب و قلب (Pericardium and Heart)				

	(h) Hijabe Hajiz حجاب حاجز (Diaphragm)				
	(i) Saddyain ثديين (Mammary Gland)				
6	Tarfe A'ala طرف اعلى (Upper Limb)	III	20	20	15
	(a) Izam عظام (Bones)				
	(b) Azlaat عضلات (Muscles)				
	(c) Mafasil مفاصل (Joints)				
	(d) Ibt wa hufrae mirfaqiyah ابط و حفرة مرفقيه (Axilla and Cubital fossa)				
	(e) Urooq wa A'asab عروق و اعصاب (Vessels and nerves)				
Total				100	60

Table 2: Contents of Tashreehul Badan – Paper – II (Theory)

	A2 List of Topics UNIUG-TB	B2 Term	C2 Mark s	D2 Lecture hours	E2 Non- Lecture hours
1	(Batan) بطن (Abdomen)	II	40	40	30
	a. اقسام بطن (Aqsam-e-Baṭān) (Abdominal regions)				
	b. مقدم ديوار بطن (Muqaddam Deewar-e-Baṭān) (Anterior Abdominal wall)				

	c. عضله موربہ ظا ہرہ اور موربہ غائی رہ External Oblique and Internal Oblique muscle				
	d. عضله مستعرضہ بطنی ہ و مستقیمہ بطنی ہ Transversus Abdominis and Rectus Abdominis muscle				
	e. مستقیمہ لفافہ (Rectus sheath)				
	f. مخروطیہ و لخصی g. دیوار بطک اعصاب و عروق Arteries and nerves of the anterior abdominal wall				
	h. ضہ فہمستعلفا (Fascia Transversalis)				
	i. خطہ اربیہ و قنات اربیہ ہ Inguinal region (groin) and Inguinal canal				
	ج. یق ماسار، ئرب، یون رب (Peritoneum, Omentum and Mesentery)				

	k. ونی ر تب طارب (Ligaments of peritoneum)				
	ل. مری کا بطنی حصہ اور اطلاق تشریح Abdominal part of the Oesophagus and its applied anatomy				
	م. قیتشریح راطلاو معدہ Stomach and its applied anatomy				
	n. اطلا اثنا عشری اور (Duodenum and its applied anatomy) قیتشریح				
	o. اور ئ ص ءمعا (Jejunum along with its applied anatomy) یح قیتشر اطلا				
	p. اطلا ئاور معاء لفا (Ileum along with its applied anatomy) قیتشریح				
	q. اطلا قی تشرکداور (Liver and its applied anatomy) یح				
	r. ددا لکی ب ی د بور (Portal vein and its applied anatomy) یح راطلا قی تشر او				
	s. آلات صفراویہ کبدی خارجی اور اطلا قیتشریح Extrahepatic Biliary Apparatus along with its applied anatomy				
	t. تشریح ور اطلا قی سا نقرہ ب (Pancreas and its applied anatomy)				

) Spleen and its applied anatomy (اطلاطحال اور) u. یح قیتشر				
) Caecum and its applied anatomy (اطلا اعوراور) v. قیتشریح				
) Appendix and its applied anatomy (یاور زائده دود) w. قیتشریح اطلا				
) Colon and its applied anatomy (راطلا قولون او) x. قیتشریح				
) Superior and Inferior Mesenteric Vessels (یقا ساری دماور) y. سفلیو				
) Kidneys and its applied anatomy (ن ک ل نی ن) z. قیتشریحاطلا اور				
	aa. اعضاء زب نه و مردا نه خارجی او راطلا قیتشریح External male and female genital organs and its applied anatomy				
	bb. غده فو فالکلیهاوراطلا قیتشریح Suprarenal Glands and its applied anatomy				
) Posterior Abdominal Wall (بطمؤخ رد یوار) cc.				
) Abdominal Aorta (ورده بطنی) dd.				
) Inferior Vena Cava (ف ا اجو) ee. سفلی				
2	عانه و عجان (A'ana wa ejan) (Pelvis and perineum)	III	30	30	15
	(a) <i>Hauz e A'anaa aur Ejan</i> حوضعانه اور عجان (Pelvis, perineum and Ischioirectal fossa)				
	(b) <i>Azmul ajuz wa- us'us</i> عظم العجز و عصع ص (Sacrum and coccyx)				
	(c) <i>Azlaate A'ana</i> عضلات عانه (Muscles and joints of pelvis)				
	(d) <i>Ah'shae Aana</i> احشاء عانه (Pelvic viscera and External Male/Female sex organs)				
3	طرف اسفل (Lower Limb) <i>Tarfe Asfal</i>	I	30	30	15

	(a) <i>Izaam</i> عظام (Bones)				
	(b) <i>Azlaat</i> عضلات ت (Muscles)				
	(c) <i>Mafasil</i> مفاصل (Joints)				
	(d) <i>Urooq wa A'asab</i> عروق واعصاب (Vessels and nerves)				
	(e) <i>Hufrajat</i> حفراجا ت (Fossae)				
	(f) <i>Musallase Fakhzi</i> مثلث فخذي (Femoral triangle)				
	(g) <i>Qanate Muqarribah</i> قنات مقربه (Adductor canal)				
	(h) <i>Hufrae mabiziyah</i> حفرة مابضييه (Popliteal fossa)				
Total				100	60

Table 2: Contents of Tashreehul Badan – (Practical)

	A2 List of Topics UNIUG-TB	B2 Term	C2 Mar ks	D2 Lectu re hours	E2 Non- Lecture hours
1	(A) Brief description of Anatomy Law, Preservation of Cadaver, Body parts and Specimen.	I	20		60
	(B) Prosection of the parts of the body (Cadaver, Audio-Visual aids or other techniques available e.g., CD's, Software or other advanced technology)	I, II			

	(C) Dissection/Demonstration of the parts of the body (Cadaver, Audio-Visual aids or other techniques available e.g., CD's, Software or other advanced technology)	II, III			
2	Osteology and Arthrology with the help of bones, models, charts, X-Ray and specimens. <ul style="list-style-type: none"> • Bones and Joints of Neurocranium • Bones and Joints of Viscerocranium • Bones and Joints of Lower limb 	I	30		100
	<ul style="list-style-type: none"> • Bones and Joints of Thoracic cage • Vertebral column and associated Joints 	II			
	<ul style="list-style-type: none"> • Bones and Joints of Upper limb • Bones and Joints of Pelvis • Associated Radiological Anatomy of all above 	III			
3	Practical study of all viscera of body with the help of models, charts and specimens.		30		100
	<ul style="list-style-type: none"> • Brain & Spinal cord 	I			
	<ul style="list-style-type: none"> • Viscera and glands of neck • Lungs & Heart • Abdominal Viscera 	II			
	<ul style="list-style-type: none"> • Pelvic Viscera • Fossae and structures of Upper and lower Limb - Cubital and Popliteal fossa 	III			
4	Study of Anatomy on living subject (Patient) <ul style="list-style-type: none"> • Inspection, Palpation of Abdominal Viscera • Counting of Ribs • Clinical or Applied Anatomy • Heart/Lung sounds with demonstration of Auscultatory • Identification of different bony landmarks • Deep tendon reflexes • Superficial reflexes 	III	20		20
Total					280

Table 3: Learning objectives of Tashreehul Badan UNIUG-TB Paper – I (Theory)

A3 Course outcome	B3 Learning Objective (At the end of the session, the Students should be able to)	C3 Domain/Sub	D3 Must to know/desira ble to know/Nice to know	E3 Level Does/sho ws/ Knows how/ Knows	F3 T-L method	G3 Assessment	H3 Formative /summati ve	I3 Ter m	J3 Inegration
Topic 1- Tashreehul Badan ka ta'aruf (General Human Anatomy) (Lecture:- 10 hours, Non lecture 10 hrs)									
CO1, CO6	Describe -Introduction and history of anatomy -Subdivision of anatomy	Cognitive/ Comprehen sion	MK	Knows how	Lecture	Written &viva	F&S	I	
CO1,CO5	Describe briefly all systems of the Body	Cognitive/ Comprehen sion	DK	Knows how	Lecture	Written &viva	F&S	I	
CO1,CO5	Describe positions and planes of the body	Cognitive/ Comprehen sion	MK	Knows how	Animation/Le cture	Written &viva	F&S	I	Surgery and Radiology
CO1,CO5	Describe -Anatomical terms:	Cognitive/ Comprehen sion	DK	Knows how	Lecture	Written &viva	F&S	I	
CO1,CO5	Describe Body regions: Body cavities (major & minor)	Cognitive/ Recall	MK	Knows how	Lecture/ Discussion	Written &viva	F&S	I	Radiology
CO1	Describe layers and surface pattern of skin	Cognitive/ Comprehen sion	DK	Knows how	Lecture	Written &viva	F&S	I	Dermatolog y
CO1	Describe Appendages of skin(Glands and specialised cells)	Cognitive/ Comprehen sion	DK	Knows how	Lecture	Written &viva	F&S	I	

CO1	Describe functions of skin	Cognitive/ Recall	DK	Knows	Lecture	Written & viva	F&S	I	
CO1	Describe Dermatomes and Angiosomes of skin	Cognitive/ Comprehension	DK	Knows how	Lecture	Written & viva	F&S	I	
CO1	Estimate surface area of skin affected by burn	Cognitive/ Comprehension	DK	Knows how	Lecture	Written & viva	F&S	I	
CO1	Describe anatomy of ageing skin	Cognitive/ Comprehension	DK	Knows how	Lecture	Written & viva	F&S	I	
CO1	Describe Superficial and deep Fasciae	Cognitive/ Recall	DK	Knows	Lecture/ Discussion	Written & viva	F&S	I	
CO1,CO2	Describe Tendon, Ligaments & Bursae	Cognitive/ Comprehension	MK	Knows	Lecture	Written & viva	F&S	I	
CO1	Describe Bones and Cartilages	Cognitive/ Recall	MK	Knows	Lecture	Written & viva	F&S	I	Orthopedics

CO1	Describe Muscular system: Naming of muscles -According to location -According to shape - According to number of heads -According to attachments -According to action - According to direction of fibres	Cognitive/ Recall	MK	Knows	Lecture	Written & viva	F&S	I	Pain clinic
	-According to size of muscle								
CO1	Describe Gross features of a typical skeletal muscle	Cognitive/ Recall	MK	Knows	Lecture	Written & viva	F&S	I	
CO1	Describe Joints	Cognitive/ Recall	MK	Knows	Animation/Lecture	Written & viva	F&S	I	Orthopedics
CO1	Describe Vertebral column:	Cognitive/ Recall	MK	Knows	Animation/Lecture	Written & viva	F&S	I	Orthopedics and Pain clinic
CO2,CO7	Describe Blood vessels: -Anastomosis: -Types of blood circulation	Cognitive/ Application	MK	Knows how	Lecture	Written & viva	F&S	I	Cardiology
CO2,CO7	Describe: -Lymphatic system - Components of lymphatic system	Cognitive/ Application	MK	Knows how	Lecture	Written & viva	F&S	I	Medicine

CO2,CO7	Describe General Embryology and genetics	Cognitive/ Application	MK	Knows how	Lecture	Written & viva	F&S	I	
Topic 2 - Raas (Head) (Lecture:- 10 hours, Non lecture 5 hrs)									
CO1,CO6	Describe Scalp	Cognitive/Comprehension	MK	Knows how	Lecture	Written	F&S	I	
CO1,CO5	Explain Temporomandibular Joint	Cognitive/Comprehension	MK	Knows how	Lecture /Video	Written	F&S	I	

CO1,CO5	Describe Cranial cavity	Cognitive/Comprehension	DK	Knows how	Lecture /Video	Written & viva	F&S	I	
CO1,CO5	Describe Cranial fossae and foramina of skull	Cognitive/Comprehension	DK	Knows how	Lecture /Video	Written & viva	F&S	I	
CO1,CO5	Explain Articulations of Skull	Cognitive/Comprehension	MK	Knows how	Animation/Lecture	Written	F&S	I	
CO1,CO5	Explain Fontanelles	Cognitive/Recall	MK	Knows	Lecture/Video	Written	F&S	I	
CO1,CO5	Explain Venous sinuses of skull	Cognitive/Comprehensive	MK	Knows	Lecture/Video	Written	F&S	I	

CO1,CO5	Describe sutures and related bony landmarks of skull	Cognitive/Recall	MK	Knows	Animation & Lecture	Written & viva	F&S	I	
CO1,CO5	Describe Normae -Norma verticalis -Norma occipitalis -Norma lateralis -Norma frontalis -Norma basalis	Cognitive/Recall	MK	Knows	Lecture/Maps	Written & viva	F&S	I	Radiology

	apparatus								
CO1	Enlist Para nasal Sinuses	Cognitive/ Comprehension	MK	Knows	Lecture/ Video	Written & viva	F&S	I	
CO1,CO2	Describe Special features of the new born skull	Cognitive/ Comprehension	NK	Knows	Early Clinical exposure	Written & viva	F&S	I	Obstetrics
CO1	Explain Teeth	Cognitive/ Recall	NK	Knows	Lecture/Animati on	Written & viva	F&S	I	

CO1,CO4	Describe Tongue, taste buds and papillae	Cognitive/ Comprehension	MK	Knows	Lecture	Written & viva	F&S	I	
CO1, CO	Describe Salivary Glands	Cognitive/ Comprehension	MK	Knows	Lecture	Written & viva	F&S	I	
CO1, CO4	Explain Oral cavity	Cognitive/ Comprehension	DK	Knows	Lecture / Discussion	Written & viva	F&S	I	ENT
CO1,CO3	Explain Nose, Nasal septum and Nasal cavity	Cognitive/ Comprehension	MK	Knows how	Lecture/Video	Written & viva	F&S	I	ENT
CO1,CO4	Describe Ear and Ear ossicles	Cognitive/ Comprehension	MK	Knows how	Lecture & Video	Written & viva	F&S	I	ENT
CO1	Enlist Muscles of Mastication	Cognitive/ Recall	MK	Knows how	Lecture	Written & viva	F&S	I	
CO1	Enlist Muscles of Face	Cognitive/ Recall	MK	Knows	Lecture/Project based learning	Written & viva	F&S	I	
CO1	Enlist Muscles of Head	Cognitive/ Recall	MK	Knows	Lecture	Written & viva	F&S	I	
CO1,CO4	Describe Infra temporal fossa	Cognitive/ Comprehension	NK	Knows	Lecture and Video	Written & viva	F&S	I	Radiology
CO1,CO4	Describe pterygopalatine fossa:	Cognitive/ Comprehension	NK	Knows	Lecture and Video	Written & viva	F&S	I	

CO1,CO4	Describe Auditory tube	Cognitive/ Comprehension	NK	Knows	Lecture	Written & viva	F&S	I	ENT
CO2,CO7	Explain applied Anatomy of Head	Cognitive/ Application	MK	Knows	Animation/Lecture	Written & viva	F&S	I	
Topic 3 - Unq (Neck) (Lecture:- 10 hours, Non lecture 5 hrs)									
CO1,CO6	Describe Pharynx: -Nasopharynx: -Oropharynx: - Laryngopharynx:	Cognitive/ Comprehension	MK	Knows	Lecture/Video	Written & viva	F&S	II	
CO1,CO6	Describe Palate	Cognitive/ Comprehension	MK	Knows	Lecture/ Discussion	Written & viva	F&S	II	
CO1,CO5	Describe palatine tonsils	Cognitive/ Comprehension	DK	Knows how	Lecture	Written & viva	F&S	II	
CO1,CO5	Enlist bones of Neck -Cervical Vertebrae - Hyoid	Cognitive/ Comprehension	DK	Knows how	Lecture/ Departmental Seminar	Written & viva	F&S	II	
CO1,CO5	Explain Waldeyer's ring	Cognitive/ Comprehension	MK	Knows	Lecture /Video	Written & viva	F&S	II	
CO1,CO5	Describe Atlanto Axial Joint	Cognitive/ Comprehension	DK	Knows how	Lecture/Animation	Written & viva	F&S	II	
CO1,CO5	Describe Atlanto Occipital Joint	Cognitive/ Recall	DK	Knows how	Lecture	Written) & viva	F&S	II	

CO1,CO5	Describe Larynx: -Cartilages -Ligaments -Membranes -Joints -Cavity -Muscles Extrinsic Intrinsic	Cognitive/ Recall	MK	Knows	Lecture	Written) & viva	F&S	II	ENT
CO1	Explain Thyroid Gland	Cognitive/ Comprehension	DK	Knows	Lecture / Discussion	Written & viva	F&S	II	
CO1,CO2	Describe Oesophagus and associated applied aspect	Cognitive/Recall	MK	Knows	Lecture	Written & viva	F & S	II	
CO1,CO2	Describe Trachea and associated applied aspect	Cognitive/Recall	MK	Knows	Lecture/Video	Written & viva	F & S	II	

	-Vertebral artery -Thyrocervical trunk -Jugular veins								
CO2,CO7	Describe Pretracheal and Prevertebral fascia	Cognitive/ Application	MK	Knows how	Lecture	Written & viva	F&S	II	

CO2,CO7	Describe Applied Anatomy of Neck	Cognitive/ Application	MK	Knows how	Early clinical exposure	Written & viva	F&S	II	
Topic 4 - <i>Nizame A'asab wa dimaghiya</i>(Nervous System) (Lecture:- 15 hours, Non lecture 5 hrs)									
CO1,CO2	Explain division of the NS	Cognitive/Recall	MK	Knows	Lectures / group discussion,	Written / viva	F&S	II	
CO1,CO2, CO6	Explain meninges - Duramater: - Arachnoid mater -Piamater	Cognitive/Recall	MK	Knows	Lecture/ Animation	Written / viva	F & S	II	
CO1,CO2	Demonstrate diagram of meninges	Cognitive/ Comprehension	MK	Knows	demonstration	practical and viva	F & S	II	
CO1,CO5, CO2	Describe Brain - Prosencephalon - Mesencephalon - Rhombencephalon	Cognitive/Recall	MK	Knows	lecture	Written / viva	F & S	II	Neurology

CO1,CO5, CO2	Describe Spinal cord - TS of spinal cord -Blood supply -Meninges - Denticulate ligament	Cognitive/Recall	MK	Knows	Animation/Lecture	Written / viva	F & S	II	Neurology
CO1,CO2	Describe Peripheral nervous system -Spinal nerves	Cognitive/Recall	MK	Knows	Lectures	Written / viva	F&S	II	
CO1,CO2	Describe Cranial nerves	Cognitive/Recall	MK	Knows	Lectures/ Discussion	Written / viva	F&S	II	
CO1,CO2	Describe Autonomic Nervous System - Sympathetic Nervous System (thoracolumbar outflow) - Parasympathetic Nervous System (craniosacral outflow) - Enteric Nervous System (ENS)	Cognitive/Recall	MK	Knows	Lectures	Written / viva	F&S	II	

CO1,CO2	Explain Ventricles of Brain	Cognitive/Recall	MK	Knows	Lectures / discussion,	Written / viva	F&S	II	
CO1,CO2	Draw diagram of brain	Cognitive/Recall	MK	Knows	Animation/Lecture)	Practical and viva	F & S	II	
CO1	Draw diagram of spinal cord	Cognitive/Recall	DK	Knows How	Lecture/Animation	practical	F & S	II	
CO1,CO3, CO2	Describe Structure of neuron	Cognitive/Recall	DK	Knows	Lecture/Maps	viva and practical	F & S	II	
CO1,CO3, CO2	Explain supporting cells of Neuron -Neuroglia (CNS) -Schwann and Satellite (PNS)	Cognitive/Recall	DK	Knows	Lecture/Video	viva and practical	F & S	II	
CO1,CO3, CO2	Explain Cerebrospinal fluid	Cognitive/Recall	MK	Knows	Lecture/Maps	viva and practical	F & S	II	
CO1,CO3, CO2	Explain Limbic system	Cognitive/Recall	DK	Knows	Lecture	viva and practical	F & S	II	
CO1,CO3, CO2	Explain Thalamus & Hypothalamus	Cognitive/Recall	MK	Knows	Lecture	viva and practical	F & S	II	
CO1,CO3, CO2	Explain Pineal body	Cognitive/Recall	DK	Knows	Lecture / /Animation	viva and practical	F & S	II	
CO1,CO3, CO2	Explain Circle of Willis	Cognitive/Recall	MK	Knows	Guest Lecture/Video	viva and practical	F & S	II	

CO1,CO2	Describe Sensory system	Cognitive/Recall	MK	Knows	Lecture	Written / viva	F & S	II	
CO1,CO3	Describe motor system	Cognitive/Recall	MK	Knows	Lecture	Written / viva	F & S	II	Neurology
CO1,CO2	Identify Prenatal and post-natal development of brain	Cognitive/Comprehension	NK	Shows	Lecture/Maps	practical and viva	F & S	II	
Topic 5- Sadr (Thorax) Time (Lecture:- 35 hours, Non lecture 20 hrs)									
CO1	Describe Thoracic wall, its functions and associated applied aspect -Muscles -Joints -Costal Cartilages	Cognitive/Recall	MK	Knows	Lectures/group discussion /Demonstration	Written & viva	F & S	II	
CO1,CO2	Describe Mediastinum and its Division	Cognitive/Recall	MK	Knows	Lectures/ video	Written & viva	F & S	II	
CO1,CO2	Describe Thoracic Cavity and suprapleural membrane	Cognitive/Recall	MK	Knows	Departmental Seminar & Demonstration	Written & viva	F & S	II	

CO3 CO1	Describe Sternal angle/ Angle of Louis	Cognitive/Recall	DK	Knows	Lecture/Maps	Written & viva	F & S	II	
CO1 CO2	Describe Bones of Thorax and associated applied aspect -Sternum	Cognitive/Recall	MK	Knows	Lectures/ group discussion	Written & viva	F & S	II	
	-Thoracic vertebra -Rib								
CO3 CO1	Describe Intercostal space -Muscles - Neuromuscular bundle	Cognitive/Recall	DK	Knows	Lectures/ group discussion	Written & viva	F & S	II	
CO1,CO2	Describe Pleura and associated applied aspect	Cognitive/Recall	MK	Knows	Lecture/Maps	Written & viva	F & S	II	
CO3	Describe Lungs and associated applied aspect	Cognitive/Recall	MK	Knows	Lectures/ video	Written & viva	S	II	
CO1, CO2,CO5	Describe Diaphragm and associated applied aspect	Cognitive/Recall	MK	Knows	Animation/Lectu re	Written & viva	F & S	II	

CO1, CO2, CO5	Describe Mammary Gland) and associated applied aspect	Cognitive/Recall	MK	Knows	Lectures/group discussion	Written & viva	F & S	II	
CO1, CO2	Describe Pericardium and associated applied aspect	Cognitive/Recall	MK	Knows	Lectures / Maps	Written & viva	F & S	II	
CO1, CO3, CO6, CO7	Describe Heart and associated	Cognitive/Comprehension	DK	Knows	Lecture/Maps	Written & viva	F & S	II	

	applied aspect								
CO1, CO2	Describe Azygos system of Veins	Cognitive/Recall	MK	Knows	Lecture/ Discussion	Written & viva	F & S	II	
CO1	Describe Aorta	Cognitive/Recall	MK	Knows	Lecture/Maps	Written & viva	F & S	II	
CO1, CO2	Describe Superior and Inferior Vena cava	Cognitive/Recall	MK	Knows	Lectures	Written & viva	F & S	II	
CO1, CO2	Explain Thoracic duct	Cognitive/Recall	MK	Knows	Lectures/ discussion	Written & viva	F & S	II	
CO1	Enlist Arteries and veins of Thorax	Cognitive/Recall	DK	Knows	Small group discussion and lecture	Written & viva	F & S	II	
CO1	Describe Thymus	Cognitive/Recall	DK	Knows	Lectures	Written & viva	F & S	II	

Topic 6 - Tarfe A'ala (Upper Limb) (Lecture:- 20 hours, Non lecture 15 hrs)									
CO1,CO6	Describe Bones of the pectoral (shoulder) girdle and associated applied aspect -Clavicle -Scapula	Cognitive/ Comprehension	MK	Knows how	Lecture/Maps	Written & viva	F&S	III	
CO1,CO6	Describe Muscles connecting upper limb to the thoracic wall	Cognitive/ Comprehension	MK	Knows how	Lecture	Written & viva	F&S	III	
CO1,CO6	Describe Muscles connecting upper limb to the vertebral column	Cognitive/ Comprehension	MK	Knows how	Lecture	Written & viva	F&S	III	
CO1,CO6	Describe Muscles connecting scapula to the humerus	Cognitive/ Comprehension	MK	Knows how	Lecture	Written & viva	F&S	III	

CO1,CO5	Describe Joints of Upper limb and associated applied aspect -Shoulder -Elbow -Wrist - Carpometacarpal - Metacarpophalangeal - Proximalinterphalangeal -Distalinterphalangeal	Cognitive/Comprehension	DK	Knows how	Lecture/Video	Written & viva	F&S	III	
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	joint								
CO1,CO5	Describe Axilla and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture/Video	Written & viva	F&S	III	
CO1,CO5	Describe Cubital fossa and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Animation/Lecture	Written & viva	F&S	III	
CO1,CO5	Describe Vessels of upper limb and associated applied aspect	Cognitive/Comprehension	DK	Knows	Demonstration	Written & viva	F&S	III	

CO1,CO5	Describe the upper arm and associated applied aspect - Contents of anterior fascial compartment - Contents of posterior fascial compartment	Cognitive/ Recall	MK	Knows	Lecture/ Discussion	Written & viva	F&S	III	
CO1,CO5	Describe Bones of the Upper arm and associated applied aspect - Humerus	Cognitive/ Recall	MK	Knows	Departmental Seminar & Lecture	Written & viva	F&S	III	

CO1,CO5	Describe Forearm: -Contents of the anterior fascial compartment - Muscles: (origin, insertion, actions) -Contents of the lateral fascial compartment -Contents of the posterior fascial compartment	Cognitive/ Recall	MK	Knows	Demonstration	Written & viva	F&S	III	
CO1,CO5	Describe Bones of the Forearm and associated applied aspect -Radius -Ulna	Cognitive/ Recall	MK	Knows	Lecture/ Discussion	Written & viva	F&S	III	
CO1,CO5	Describe Anatomical snuff box (boundaries, contents and clinical anatomy)	Cognitive/ Recall	MK	Knows	Demonstration	Written & viva	F&S	III	

CO1,CO2	Describe the palm and associated applied aspect	Cognitive/ Comprehension	DK	Knows how	Small group discussion	Written & viva	F&S	III	
CO1,CO2	Describe dorsum of hand and associated applied aspect	Cognitive/ Recall	MK	Knows	Lecture	Written & viva	F&S	III	
CO1,CO5	Describe Bones of the hand and associated applied aspect - -Carpals -Metacarpals -Phalanges	Cognitive/ Recall	MK	Knows	Lecture	Written & viva	F&S	III	
CO1,CO2	Explain Brachial Plexus and Major nerves of upper limb	Cognitive/ Comprehension	MK	Knows	Lecture/Video	Written & viva	F&S	III	
CO1,CO2	Describe rotator cuff	Cognitive/ Comprehension	MK	Knows	Lecture	Written & viva	F&S	III	

Table 3: Learning objectives of Tashreehul Badan UNIUG-TB Paper – II (Theory)

A3 Course	B3 Learning Objective	C3 Domain/Sub	D3 Must to	E3 Level Does/show	F3 T-L method	G3 Assessmen t	H3 Formative /summative	I3 T e	J3 Integratio n
outcom e	(At the end of the session, the Students should be able to)		know/desirab le to know/Nice to know	s/ Knows how/ Knows		t	/summative	r m	
Topic 1 - <i>Batn</i> (Abdomen) (Lecture:- 40 hours, Non lecture 30 hrs)									
CO1	Describe the Abdominal regions and enlist their contents	Cognitive/ Comprehensi on	MK	Knows how	Lecture/video	Written & viva	F & S	II	
CO1 CO2	Describe the Anterior Abdominal wall and enumerate its surface landmarks	Cognitive/ Comprehensi on	MK	Knows how	Lecture	Written &viva	F & S	II	
CO1	Enlist and explain the layers of Anterior Abdominal Wall and associated applied aspect	Cognitive/ Comprehensi on	MK	Knows how	Lecture	Written & viva	F & S	II	

CO1	Describe muscles of anterior abdominal wall and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture	Written & viva	F & S	II	
CO1	Describe External Oblique and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture	Written & viva	F & S	II	

CO1	Describe Internal Oblique and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture/	Written & viva	F & S	II	
CO1	Describe Transverses Abdominis and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture	Written & viva	F & S	II	
CO1	Describe Rectus Abdominis and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture/Map	Written & viva	F & S	II	
CO1	Describe rectus sheath and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture	Written & viva	F & S	II	
CO1	Describe Cremaster and Pyramidalis and associated applied aspect	Cognitive/Comprehension	DK	Knows how	Lecture	Written & viva	F & S	II	

CO1	Identify the arteries of the anterior abdominal wall and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture	Written & viva	F & S	II	
CO1	Enlist deep nerves of the anterior abdominal wall and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture	Written & viva	F & S	II	
CO1	Define Fascia Transversalis and associated applied aspect	Cognitive/Comprehension	DK	Knows how	Lecture	Written & viva	F & S	II	
CO1	Describe the Inguinal region (groin) and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture	Written & viva	F & S	II	
CO1	Explain the Inguinal canal and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture/Maps	Written & viva	F & S	II	
CO1, CO2	Describe Peritoneum: Peritoneal pouches, recesses, spaces and gutters and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Project Based learning/Lecture	Written & viva	F & S	II	

CO1	Identify and discuss the subdivisions of peritoneal cavity and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture/Discussion	Written & viva	F & S	II	
CO1 CO2	Describe abdominal oesophagus and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture	Written & viva	F & S	II	
CO1 CO2	Describe Anatomy of	Cognitive/Comprehension	MK	Knows how	Departmental Seminar & Lecture	Written & viva	F & S	II	

	associated applied aspect	on							
CO1	Describe Spleen: and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture	Written & viva	F & S	II	
CO1	Describe Caecum: and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture	Written & viva	F & S	II	
CO1 CO2	Describe Appendix: and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture	Written & viva	F & S	II	
CO1 CO2	Describe Ascending colon: and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture	Written & viva	F & S	II	
CO1 CO2	Describe Descending colon: and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture	Written & viva	F & S	II	
CO1	Describe the Superior and Inferior Mesenteric Vessels	Cognitive/Comprehension	MK	Knows how	Lecture/Discussion	Written & viva	F & S	II	

CO1	Describe Kidneys: and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Departmental Seminar & Lecture	Written & viva	F & S	II	
CO1	Describe foramen of Winslow	Cognitive/Comprehension	MK	Knows how	Lecture/Maps	Written & viva	F & S	II	
CO1	Describe Coelic trunk	Cognitive/Comprehension	MK	Knows how	Lecture	Written & viva	F & S	II	
CO1	Describe Cisterna chyli	Cognitive/Comprehension	MK	Knows how	Lecture/Maps	Written & viva	F & S	II	
CO1	Describe Ureter and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture/Demonstration	Written & viva	F & S	II	
CO1	Describe Suprarenal glands: and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture/Discussion	Written & viva	F & S	II	
CO1	Explain the Posterior Abdominal Wall and its structure	Cognitive/Comprehension	DK	Knows how	Lecture/Demonstration	Written & viva	F & S	II	
CO1	Describe the muscles of the Posterior Abdominal Wall	Cognitive/Comprehension	MK	Knows how	Lecture/Demonstration	Written & viva	F & S	II	
CO1	Name and explain the fasciae of posterior abdominal wall	Cognitive/Comprehension	MK	Knows how	Lecture/Discussion	Written & viva	F & S	II	

CO1	Explain abdominal aorta and associated applied aspect	Cognitive/Comprehension	MK	Knows how	Lecture	Written & viva	F & S	II	
CO1	Explain Inferior vena cava and associated applied aspect Portal vein	Cognitive/Comprehension	DK	Knows how	Lecture/Demonstration	Written & viva	F & S	II	
CO1	Label the lymphatics and lymph nodes of the Posterior abdominal wall	Cognitive/Comprehension	MK	Knows how	Lecture/Demonstration	Written & viva	F & S	II	
CO1	Explain Nerves on the posterior abdominal wall and associated applied aspect	Cognitive/Comprehension	NK	Knows how	Lecture/Discussion	Written & viva	F & S	II	
CO1,CO5	Describe Lumbar vertebrae	Cognitive/Comprehension	MK	Knows how	Departmental Seminar & Lecture	Written & viva	F&S	II	
Topic 2- A'ana wa ejan (Pelvis and Perineum) (Lecture:- 30 hours, Non lecture 15 hrs)									
CO1,CO6	Explain Bony pelvis -Pelvic walls -Pelvic diaphragm -Bony landmarks	Cognitive/Comprehension	MK	Knows	Demonstration & Lecture	Written & viva	F&S	III	Obstetrics
CO1,CO5	Describe Sacrum and coccyx:	Cognitive/Comprehension	DK	Knows how	Demonstration & Lecture	Written & viva	F&S	III	

CO1,CO 5	Describe Muscles of pelvic wall and floor	Cognitive/ Comprehensi on	MK	Knows how	Lecture	Written & viva	F&S	III	
CO1,CO 5	Describe Muscles of	Cognitive/ Comprehensi	MK	Knows how	Lecture	Written & viva	F&S	III	

	perineum	on							
CO1,CO 5	Describe Contents of the pelvic cavity - Sigmoid colon -Rectum	Cognitive/ Comprehensi on	DK	Knows how	Lecture	Written & viva	F&S	III	
CO1,CO 5	Describe Pelvic viscera: -Ureters -Urinary bladder -Urethra	Cognitive/ Recall	MK	Knows	Lecture	Written & viva	F&S	III	
CO1,CO 5	Describe Male genital organs -Prostate -Testes -Penis -Seminal vesicles -Bulbourethral glands	Cognitive/ Recall	MK	Knows	Lecture	Written & viva	F&S	III	

CO1,CO 5	Explain Female genital organs - Ovaries -Uterine tubes -Uterus -Vagina -Vulva -Mammary glands	Cognitive/ Recall	MK	Knows	Lecture	Written & viva	F&S	III	
CO1	Describe The perineum -Anal triangle	Cognitive/ Comprehension	DK	Knows how	Small group discussion	Written & viva	F&S	III	

	-Superficial perineal pouch -Deep perineal pouch								
CO1	Describe Urogenital diaphragm	Cognitive/ Recall	MK	Knows	Small group discussion	Written & viva	F&S	III	
CO1,CO 2	Describe Ischiorectal fossa	Cognitive/ Comprehension	MK	Knows how	Demonstration & Small group discussion	Written & viva	F&S	III	
CO1	Explain Anal canal	Cognitive/ Comprehension	NK	Knows how	Lecture	Written & viva	F&S	III	
CO1	Describe Urogenital triangle	Cognitive/ Comprehension	MK	Knows how	Lecture/Maps	Written & viva	F&S	III	
CO1	Explain Joints of the pelvis	Cognitive/ Comprehension	MK	Knows how	Demonstration & Small group discussion	Written & viva	F&S	III	

CO1	Describe Pelvic fascia, Pelvis and peritoneum	Cognitive/Comprehension	MK	Knows how	Lecture/Maps	Written & viva	F&S	III	
CO1	Describe Sex differentiation of pelvis	Cognitive/Comprehension	MK	Knows how	Demonstration & Small group discussion	Written & viva	F&S	III	
CO1	Describe Clinical Anatomy of Pelvis	Cognitive/Comprehension	MK	Knows how	Discussion	Written & viva	F&S	III	
Topic 3- Tarfe Asfal (Lower Limb) (Lecture:- 30 hours, Non lecture 15 hrs)									
CO1,CO6	Describe Gluteal region -Bones (Ilium,	Cognitive/Comprehension	MK	Knows how	Departmental Seminar & Lecture	Written & viva	F&S	I	
	Ischium and Pubis) -Muscles (origin, insertion, nerve supply and actions) -Nerves -Arteries -Applied aspect								

CO1,CO 5	Describe Joints of Lower limb and associated applied aspect -Hip -Knee -Proximal and tibiofibular joint -Ankle -Tarsometatarsal - Metatarsophalangea I - Proximalinterphalangeal -Distalinterphalangeal -Subtalar	Cognitive/ Comprehension	DK	Knows how	Lecture	Written & viva	F&S	I	
CO1,CO 5	Describe Anterior fascial (extensor) compartment of thigh -Muscles (origin, insertion, nerve	Cognitive/ Comprehension	MK	Knows how	Lecture	Written & viva	F&S	I	

	supply and actions) of Anterior fascial compartment								
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CO1,CO 5	Describe Medial fascial (adductor) compartment of thigh: Muscles (origin, insertion, nerve supply and actions)	Cognitive/ Comprehension	DK	Knows	Lecture	Written & viva	F&S	I	
CO1,CO 5	Describe Posterior fascial (hamstring/ flexor) compartment of thigh: -Muscles (origin, insertion, nerve supply and actions):	Cognitive/ Recall	MK	Knows	Lecture	Written & viva	F&S	I	
CO1,CO 5	Describe Bones of the leg -Femur -Tibia -Fibula	Cognitive/ Recall	MK	Knows	Lecture	Written & viva	F&S	I	
CO1,CO 5	Describe bones of the foot -Tarsals -Meta-tarsals -Phalanges	Cognitive/ Recall	MK	Knows	Lecture	Written & viva	F&S	I	
CO1, CO2	Explain popliteal fossa	Cognitive/ Comprehension	MK	Knows how	Lecture	Written & viva	F&S	I	

CO1, CO2	Describe fascial compartments of the leg -Anterior (extensor)&muscles -Lateral fascial (peroneal) compartment of leg&muscles -Posterior fascial (flexor) compartment of leg&muscles	Cognitive/ Comprehension	DK	Knows how	Lecture	Written & viva	F&S	I	
CO1	Describe Ankle region -Anterior aspect of ankle -Posterior aspect of ankle Sole of the foot: Muscles of the sole (origin, insertion, nerve supply and actions): Dorsum of the foot	Cognitive/ Recall	MK	Knows how/ Knows	Small group discussion and lecture	Written & viva	F&S	I	

CO1	Describe sole and dorsum of the foot: -Muscles of the sole (origin, insertion, nerve supply and actions):	Cognitive/ Recall	MK	Knows	Small group discussion and lecture	Written & viva	F&S	I	
CO1	Explain Arches of the foot:	Cognitive/ Comprehension	MK	Knows	Lecture	Written & viva	F&S	I	
CO1	Explain Femoral & Adductor canal	Cognitive/ Comprehension	MK	Knows	Lecture	Written & viva	F&S	I	
CO1	Explain Femoral Triangle	Cognitive/ Comprehension	MK	Knows	Guest Lecture	Written & viva	F&S	I	
CO1,CO 2	Explain Lumbar Plexus and Major nerves of Lower limb	Cognitive/ Comprehension	MK	Knows	Lecture	Written & viva	F&S	I	
CO1,CO 2	Explain Sacral Plexus	Cognitive/ Comprehension	MK	Knows	Lecture	Written & viva	F&S	I	
CO1,CO 2	Demonstrate movements of foot	Psychomotor	DK	Knows	Demonstration	Written & viva	F&S	I	

Table 4: Learning objectives of Tashreehul Badan UNIUG-TB(Practical)

A4 Course outcome	B4 Learning Objective (At the end of the Practical/ Clinic, the Students should be able to)	C4 Domain/Sub	D4 Must to know/desirable to know/Nice to know	E4 Level Does/ shows/ Knows how/ Knows	F4 T-L method	G4 Assessment	H4 Formative /summative	I4 Term	J4 Integration
Practical 1 -Anatomy Law, Prosections and Dissections (Non Lecture - 60 hours)									
CO1	Describe Anatomy Law, Preservation of Cadaver, Body parts and Specimen.	Cognitive/Recall	MK	Knows how	Tutorial+ Demonstration+ Video clips	Written & Viva-Voce	F & S	I	
CO1 CO2 CO3	Describe Line of dissection Dissection technique	Cognitive/Recall	MK	Knows how	Tutorial+ Demonstration+ Video clips	Written & Viva-Voce	F & S	I	
CO1 CO2 CO3	Identify different layers of body	Psychomotor	MK	Knows how	Tutorial+ Demonstration+ Video clips	Written & Viva-Voce	F & S	III	

CO1 CO2 CO3	Perform Dissections of the parts of the body (Cadaver, Audio) -Visual aids or other techniques available e.g., CD's, Software or other advanced technology	Psychomotor	MK	Knows how	Tutorial+ Demonstration+ Video clips	Written & Viva-Voce	F & S	I,II, III	
CO1 CO2 CO3	Observe Prosection of the parts of the body	Psychomotor	MK	Knows how	Tutorial+ Demonstration+ Video clips	Written & Viva-Voce	F & S	I,II, III	
Practical II - Osteology and Arthrology (Non Lecture- 100 hours)									
CO1 CO5 CO3 CO5 CO6 CO7	Describe Bones and Joints of Neurocranium	Cognitive/ Comprehension	MK	Knows how	Tutorial+ Demonstration	Spotting & Viva-Voce	F & S	I	
		Cognitive/	MK	Knows	Tutorial+	Spotting &	F & S	I	

CO1 CO5 CO3 CO5 CO6 CO7	Describe Bones and Joints of Viscerocranium	Comprehension		how	Demonstration	Viva-Voce			
CO1 CO5 CO3 CO5 CO6 CO7	Enumerate Bones and Joints of Thoracic	Cognitive/ Comprehension	MK	Knows how	Tutorial+ Demonstration	Spotting & Viva-Voce	F & S	II	
CO1 CO5 CO3 CO5 CO6 CO7	Describe Bones and Joints of Upper limb	Cognitive/ Comprehension	MK	Knows how	Tutorial+ Demonstration	Spotting & Viva-Voce	F & S	III	

CO1 CO5 CO3 CO5	Enlist Bones and Joints of Pelvis	Cognitive/Recall	MK	Knows how	Tutorial+ Demonstration	Spotting & Viva-Voce	F & S	III	
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CO6 CO7									
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CO1 CO5 CO3 CO5 CO6 CO7	Describe Bones and Joints of Lower limb	Cognitive/ Comprehension	MK	Knows how	Tutorial+ Demonstration	Spotting & Viva-Voce	F & S	I	
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CO1 CO5 CO3 CO5 CO6 CO7	Describe Associated Radiological Anatomy of all regions	Cognitive/ Comprehension	MK	Knows how	Tutorial+ Demonstration	Spotting & Viva-Voce	F & S	III	
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CO1 CO5 CO3 CO5 CO6 CO7	Explain Vertebral column and associated Joints (General characteristics of Vertebral column and all vertebra individually)	Cognitive/ Comprehension	MK	Knows how	Tutorial+ Demonstration	Spotting & Viva-Voce	F & S	III	

	specimens.								
CO1 CO2	Describe all Pelvic Viscera with the help of models, charts and specimens. Fossae and structures of Upper and lower Limb Cubital Fossa Popliteal fossa	Cognitive/ Comprehension	MK	Knows how	Tutorial+ Demonstration	Spotting & Viva-Voce	F & S	III	
CO1 CO2	Describe Cubital Fossa and structures of Upper limb with the help of models, charts and specimens.	Cognitive/ Comprehension	MK	Knows how	Tutorial+ Demonstration	Spotting & Viva-Voce	F & S	III	

CO1 CO2	Describe Popliteal fossa and structures of Lower limb with the help of models, charts	Cognitive/ Comprehension	MK	Knows how	Tutorial+ Demonstration	Spotting & Viva-Voce	F & S	I	
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	and specimens.								
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Practical IV - Study of Anatomy on living subject (Patient) (Non Lecture- 20 hours)

CO1 CO2 CO4 CO5 CO7	Describe and Identify Pulsations	Cognitive/ Comprehension	MK	Knows how	Tutorial+ Demonstration	Viva-Voce	S	III	
CO1 CO2 CO4 CO5 CO7	Describe Counting of Ribs	Cognitive/ Comprehension	MK	Knows how	Tutorial+ Demonstration	Viva-Voce	S	III	
CO1 CO2 CO4 CO5 CO7	Describe Heart sounds	Cognitive/ Comprehension	MK	Knows how	Tutorial+ Demonstration	Viva-Voce	S	III	

CO1 CO2 CO4 CO5 CO7	Identify of different bony landmarks	Psychomotor	MK	Knows how	Tutorial+ Demonstration	Viva-Voce	S	III	
CO1 CO2 CO4 CO5 CO7	Explain Deep tendon reflexes - -Biceps -Brachioradialis -Triceps -Patellar -Ankle	Cognitive/ Comprehension	MK	Knows how	Tutorial+ Demonstration	Viva-Voce	S	III	
CO1 CO2 CO4 CO5 CO7	Explain Superficial reflexes -Plantar response -Abdominal reflex - Cremastic reflex -Corneal reflex	Psychomotor	MK	Shows	Tutorial+ Demonstration	Viva-Voce	S	III	

Table 5- Non Lecture Activities of Tashreehul Badan UNIUG-TB

	S. No	List non lecture Teaching-Learning methods	No of Activities
A		Activities in classroom	
	1	Demonstration	20
	2	Discussion	20
	3	Departmental Seminar	10
	4	Small group discussion	13
	5	Guest Lecture	2
	6	Concept Maps	15
	7	Educational Videos	20
	8	Project based learning	03
	9	Early clinical Exposure	02
	10	Animation	15
		Subtotal - 120	
B		Activities in practical	280
		Total	400

Table 6: Assessment Summary

6 A - Number of papers and Marks Distribution

S.No.	Subject	Papers	Theory	Practical or Clinical Assessment					Grand Total
				Practical or Clinical	Viva	Electives	IA	Total	
1	Tashreehul Badan (Human Anatomy) Paper – I Paper - II	2	200	100	20	10	20	150	350

6. B - Scheme of Assessment (formative and Summative)

SR.NO.	PROFESSIONAL COURSE	DURATION OF PROFESSIONAL COURSE		
		First Term (1-6 Months)	Second Term (7-12 Months)	Third Term (13-18 Months)
1	First	3 PA & First TT	3 PA & Second TT	3 PA & UE

PA: Periodical Assessment; TT: Term Test; UE: University Examinations

6 C - Calculation Method for internal assessment Marks (20 Marks)

TERM	PERIODICAL ASSESSMENT				TERM TEST	TERM ASSESSMENT	
	A	B	C	D	E	F	G
	1 (20)	2 (20)	3 (20)	Average (A+B+C/3) 20	Term Test (MCQ+SAQ+LAQ And Practical (Converted to 20)	Sub Total	Term Assessment
FIRST						D+E	D+E /2
SECOND						D+E	D+E /2
THIRD					NIL	D	D
Final IA	Average of Three Term Assessment Marks as Shown in 'G' Column						

6 D - Evaluation Methods for Periodical Assessment

S. No.	Evaluation Methods
1.	Practical / Clinical Performance
2.	Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
3.	Open Book Test (Problem Based)
4.	Summary Writing (Research Papers/ Samhitas)
5.	Class Presentations; Work Book Maintenance
6.	Problem Based Assignment
7.	Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)
8.	Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).
9.	Small Project

10.	Other activities explained in Table 3 Column G3 as per indicated term.
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6 E - Question Paper Pattern

I PROFESSIONAL BUMS EXAMINATIONS

UNIUG-TB

PAPER-I

Time: 3 Hours Maximum Marks: 100

INSTRUCTIONS: All questions compulsory

		Number of Questions	Marks per question	Total Marks
Q 1	Multiple Choice Questions (MCQ)	20	1	20
Q 2	Short answer questions (SAQ)	8	5	40
Q 3	Long answer questions (LAQ)	4	10	40
				100

PAPER-II

Time: 3 Hours Maximum Marks: 100

INSTRUCTIONS: All questions compulsory

		Number of Questions	Marks per question	Total Marks
Q 1	Multiple Choice Questions (MCQ)	20	1	20
Q 2	Short answer questions (SAQ)	8	5	40
Q 3	Long answer questions (LAQ)	4	10	40
				100

6 F(1) - Distribution of Theory examination Paper-I

	A List of Topics	B Term	C Marks	D Type of Questions "Yes" can be asked. "No" should not be asked.		
				MCQ (1 Mark)	SAQ (5 Marks)	LAQ (10 Marks)
1	(Tashreeh ul Badan ka تشریح البدن ن ف ta'aruf Introduction of Human Anatomy (General Anatomy)	I	10	Yes	Yes	No

	(j) Nizame Jismani ka mukhtasar ta' aruf نظا مجسمانی کا مختصر تعارف A brief description of systems of the Body)					
	(k) Tashreehi waz'a wa Muta'alliqa istilahat					

	تشریحیو ضعمو متعلقہ اصطلاحات (Anatomical position and related terminologies)					
	(l) Jild aur uske zawaid جلد اور اسکے زوائد (Skin and its appendages)					
	(m) Lafaiqe satahiya wa ghaairah لفائف سطحیہ و غائرہ (Superficial and deep Fasciae)					
	(n) Autar, Rabatat aur Akyase zulaliya او تارریباطات اور اکیاس زلالیہ (Tendon, Ligaments and Bursae)					
	(o) Izaam: Aqsaam, af'aal wa ta'azzum عظام، اقسام، افعال و تعظم Bones: (Types, functions and ossification)					
	(p) Azlaat: Aqsaam wa af'aal عضلات، اقسام و افعال Muscles (Types and functions)					
	(q) Mafasil, Aqsaam wa harakaat مفاصل، اقسام و حرکات (Joints, Types and movements)					
	(r) Ilmul janeen wa nasliyat علم الجنین و نسلیات (General Embryology and Genetics)					
2	Raas (Head) راس (Head)	1	20	Yes	Yes	Yes
	(i) Jumjumah aur uske manaazir ka aam bayaan جمجمہ اور اسکے مناظر کا بیان (General description and views of Skull).					
	(j) Mufsal Sudughi fakki مفصل صدغی فکی (Temporomandibular joint)					

	(k) Jaufe Fam, Lisaan, Asnaan wa Halaq جوف فم، لسان، اسنان و حلق (Oral Cavity, Gums, Teeth and Pharynx)					
	(l) Anaf, Jaufe Anf wa Khalaye Hawaiyah انف، جوف انف و خلايا بوانيه (Nose, nasal cavity and Paranasal sinuses)					
	(m) Uzn اذن (Ear)					
	(n) Mashmoolate Mahjar مشمولات محجر (Contents of Orbit): Aj'faan اجفان (Eyelids)					

	(o) Aalate dam'a آلات دمع (Lacrimal apparatus) and Muqlatul Ain مقلة العين (Eye ball)					
	(p) Ghudade Lu'abiya غدد لعابية (Salivary glands)					
3	Unq عنق (Neck)	II	10	Yes	Yes	No
	(i) Musallasate Unq ka mukhtasar bayaan مثلثات عنق کا مختصر بیان (Brief description of Triangles of the Neck)					
	(j) Azlaate Unq عضلات عنق (Muscles of the Neck)					
	(k) Urooq wa a'asab عروق و اعصاب (Vessels and nerves)					
	(l) Hanjarah wa Qasbatu r'riyah حنجره و قصبه الریه (Larynx and Trachea)					
	(m) Mari مری (Oesophagus)					
	(n) Raas wa Unq ke Ghudade Lymphawiyah راس و عنق کے غدد لمفاویہ (Lymph nodes of Head and neck)					
	(o) Fuqrata Unq فقرات عنق (Cervical Vertebrae)					

	(p) Ghudade Darqiyah wa Jaar darqiyah غدد درقیہ و جار درقی ہ (Thyroid and parathyroid glands)					
4	Nizame A'asab نظام اعصاب (Nervous system)	II	10	Yes	Yes	No
	(c) Aghshiya-e-Dimagh, Dimagh aur Nukha'a ka mukhtasar bayaan اغشیدماغ، دماغ اور نخاع کا مختصر بیان (A brief description of Meanings, Brain and spinal cord)					
	(d) A'asabe Nukha wa Dimaghi اعصاب نخاع و دماغ ی (Cranial and Spinal nerves)					
5	Sadr صدر (Thorax)	II	30	Yes	Yes	Yes
	(j) Jaufe Sadr					

	جوف صدر (Thoracic Cavity)					
	(k) Azla'a, Azmul Qas wa fuqraate sadr اضلاع عظم القص و فقرات صدر (Ribs, Sternum and Thoracic Vertebrae)					
	(l) Azlaate sadr عضلات صدر (Muscles of the Thorax)					
	(m) Ghishaur riyah wa riyatain غشاءالریہ و ریبتین (Pleura and Lungs)					
	(n) Hijabe munassifussadr wa mashmoolat حجاب منصف الصدر و مشمولات (Mediastinum & its contents)					
	(o) Urooq wa A'asab aur majrae sadr عروق و اعصاب اور مجری ص در (Vessels, Nerves and Thoracic duct)					
	(p) Ghilaful qalb wa Qalb غلافالقلب و قلب (Pericardium and Heart)					
	(q) Hijabe Hajiz حجاب حاجز (Diaphragm)					

	(r) <i>Saddyain</i> ثَدِيئِي ن (Mammary Gland)					
6	<i>Tarfe A'ala</i> طَرَف اَعْلَى' (Upper Limb)	III	20	Yes	Yes	Yes
	(f) <i>Izam</i> عِظَام (Bones)					
	(g) <i>Azlaat</i> عَضَلَات (Muscles)					
	(h) <i>Mafasil</i> مَفَاصِل (Joints)					
	(i) <i>Ibt wa hufrae mirfaqiyah</i> اِبْط و حَفْرَه مَرْفَقِي ه (Axilla and Cubital fossa)					
	(j) <i>Urooq wa A'asab</i> عُرُوق و اَعْصَاب (Vessels and nerves)					

6 F(2) - Distribution of Theory examination Paper-II

	A List of Topics	B Term	C Marks	D Type of Questions "Yes" can be asked. "No" should not be asked.		
				MCQ (1 Mark)	SAQ (5 Marks)	LAQ (10 Marks)
1	بط (Batan) (Abdomen)	II	40	Yes	Yes	Yes
	a. اقسام بط (Aqşam-e-Baṭan) (Abdominal regions)					
	b. مقدم ديوار بط (Muqaddam Deewar-e-Baṭan) (Anterior Abdominal wall)					
	c. عضله موربه ظايره اور (موربه غائره) External Oblique and (Internal Oblique muscle)					

	.d عضله مستعرضه ب طنی Transversus (مستقیمه ب طنی) و Abdominis and Rectus Abdominis) muscle					
	.e لفافه (Rectus sheath) مستقیمه					
	.f عضله م ع لقه الخصی Cremaster and (مخروطیه Pyramidalis muscle					
	.g دیوار بطن کے اعصاب و Arteries and nerves of the anterior abdominal عروق (wall)					
	.h لفافہ (Fascia Transversalis) فہمستعر ضہ					
	.i خطہ اریبہ و قنات اریبہ (Inguinal region) (groin) and Inguinal canal					
	.j ثرب، یون، ر ب (Peritoneum, Omentum) یق ماسار) and Mesentry					
	.k طارب (Ligaments of peritoneum) ون ی ر تب					
	.l مری کا بطنی حصہ اور اطلاقی تشریح Abdominal part of the Oesophagus and its applied anatomy					
	.m اطلاقی اور معدہ Stomach and its applied anatomy تشریح					
	.n اثنا عشری اور اطلاقی تشریح (Duodenum and its applied anatomy)					

	applied anatomy)					
	. معاء صغی اور اطلاقی تشریح (Jejunum along with its o applied anatomy					
	. معاء لفائی اور اطلاقی تشریح (Ileum along with its applied anatomy					
	. q کداور اطلاقی تشریح (Liver and its applied anatomy)					

	۲. وری د ب الکی دد اور اطلاقی تشریح (Portal vein and its applied anatomy)					
	s. آلات صفراویہ کبدی خارج ی Extrahepatic Biliary Apparatus along with its applied anatomy					
	t. ب نقرسا اور اطلاقی تشریح Pancreas and its applied anatomy					
	u. طحال اور اطلاقی تشریح Spleen and its applied anatomy					
	v. ا عور اور اطلاقی تشریح Caecum and its applied anatomy					
	w. زائده دود یا اور اطلاقی تشریح Appendix and its applied anatomy					
	x. قولون اور اطلاقی تشریح Colon and its applied anatomy					
	y. وری دما ساریقا علی و اسفل Superior and Inferior Mesenteric Vessels					
	z. ک ل ن ن اور اطلاقی تشریح Kidneys and its applied anatomy					
	aa. اعضاء زب نه و مردانہ خارجی اور اطلاقی تشریح External male and female genital organs and its applied anatomy					
	bb. غدہ فوقا لکلیہ اور اطلاقی تشریح Suprarenal Glands & its applied anatomy					
	cc. بطمؤخ رد یوار (Posterior Abdominal Wall)					
	dd. وردہ بطنی (Abdominal Aorta)					
	ee. ف ا جو (Inferior Vena Cava) اسفل					
2	عانه و عجان (A'ana wa ejan) (Pelvis and perineum)	III	30	Yes	Yes	Yes

	(e) <i>Hauz e A'anaa aur Ejan</i> حوضعاته اور عجان (Pelvis, perineum and Ischioirectal fossa)					
	(f) <i>Azmul ajuz wa- us'us</i> عظم العجز و عصع ص (Sacrum and coccyx)					
	(g) <i>Azlaate a'ana</i> عضلات عانہ (Muscles and joints of pelvis)					
	(h) <i>Ah'shae Aana</i> احتشاء عانہ (Pelvic viscera and External Male/Female sex organs)					
3	<i>Tarfe Asfal</i> طرف اسفل ل (Lower Limb)	I	30	Yes	Yes	Yes
	(i) <i>Izaam</i> عظام (Bones)					
	(j) <i>Azlaat</i> عضلات (Muscles)					
	(k) <i>Mafasil</i> مفاصل ل (Joints)					
	(l) <i>Urooq wa A'asab</i> عروق و اعصاب (Vessels and nerves)					
	(m) <i>Hufrajat</i> حفراجات (Fossae)					
	(n) <i>Musallase Fakhzi</i> مثلث فخذی (Femoral triangle)					
	(o) <i>Qanate Muqarribah</i> قنات مقربہ (Adductor canal)					
	(p) <i>Hufrae mabiziyah</i> حفرہ ماہیضیہ (Popliteal fossa)					

6 G(1) - Question Paper blueprint Paper-I

A Question Sr. No	B Type of Question	C Question Paper Format
Q1	<p>Multiple choice Questions (MCQ)</p> <p>20 Questions</p> <p>1 mark each</p> <p>All compulsory</p> <p>Must know 15 MCQ Desirable to know 3 MCQ Nice to know 2 MCQ</p>	<ol style="list-style-type: none"> 1. 1(a) / 1(i) / 3(a) 2. 1(b) / 2(b) 3. 1(c) / 2(c) 4. 1(d) / 2(d) 5. 1(e) / 2(e) 6. 1(f) / 2(f) 7. 1(g) / 2(g) 8. 1(h) / 2(h) 9. 2(a) / 5(a) 10. 5(b) / 5(c) 11. 5(d) / 5(g) 12. 6(a) / 6(b) 13. 6(c) / 6(e) 14. 4(a) / 3(h) 15. 4(b) / 3(g) 16. 5(e) / 3(f) 17. 5(f) / 3(e) 18. 5(h) / 3(d) 19. 5(i) / 3(c) 20. 6(d) / 3(b)

Q2	<p>Short answer Questions (SAQ) Eight Questions 5 Marks Each All compulsory</p> <p>Must know 7 SAQ Desirable to know 1 SAQ No Questions on Nice to know</p>	<ol style="list-style-type: none"> 1. 1(a) / 1(i) / 3(a) / 4(a) 2. 1(b) / 2(b) / 3(b) / 4(b) 3. 1(c) / 2(c) / 3(c) / 5(e) 4. 1(d) / 2(d) / 3(d) / 5(f) 5. 1(e) / 2(e) / 3(e) / 5(h) 6. 1(f) / 2(f) / 3(f) / 5(i) 7. 1(g) / 2(g) / 3(g) / 6(d) 8. 1(h) / 2(h) / 3(h) / 6(e)
Q3	<p>Long answer Questions (LAQ) Four Questions 10 marks each All compulsory All questions on must know No Questions on Nice to know and Desirable to know</p>	<ol style="list-style-type: none"> 1. 2(a) / 5(c) / 6(c) 2. 5(a) / 5(d) 3. 5(b) / 5(g) 4. 6(a) / 6(b)

6 G(2) - Question Paper blueprint Paper-II

A Question Sr. No	B Type of Question	C Question Paper Format
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<p>Q1</p>	<p>Multiple choice Questions (MCQ)</p> <p>20 Questions</p> <p>1 mark each</p> <p>All compulsory</p> <p>Must know 15 MCQ Desirable to know 3 MCQ Nice to know 2 MCQ</p>	<ol style="list-style-type: none"> 1. 1(ff) / 1(vv) / 1(ddd) 2. 2(a) / 1(xx) / 1(fff) 3. 2(b) / 1(yy) / 1(ggg) 4. 2(c)/ 1(zz) / 1(hhh) 5. 2(d) / 1(eee) 6. 3(a) / 1(hh) 7. 3(b) / 1(ii) 8. 3(c)/ 1(kk) 9. 3(d) / 1(ll) 10. 3(e) / 1(mm) 11. 3(f) / 1(pp) 12. 3(g) / 1(jjj) 13. 3(h) / 1(iii) 14. 1(gg) / 1(qq) 15. 1(jj) / 1(rr) 16. 1(nn)/ 1(tt) 17. 1(oo) / 1(ww) 18. 1(rr) / 1(aaa) 19. 1(ss)/ 1(bbb) 20. 1(uu)/ 1(ccc)
<p>Q2</p>	<p>Short answer Questions (SAQ)</p>	<ol style="list-style-type: none"> 1. 1(hh) / 1(ii) / 1(ggg)
	<p>Eight Questions 5 Marks Each All compulsory</p> <p>Must know 7 SAQ Desirable to know 1 SAQ No Questions on Nice to know</p>	<ol style="list-style-type: none"> 2. 2(c) / 1(kk) / 1(hhh) 3. 3(b) / 1(ll) / 1(ww) 4. 3(d)/ 1(mm) / 1(aaa) 5. 3(e) / 1(pp) / 1(bbb) / 1(iii) 6. 3(f) / 1(qq) / 1(ccc) / 1(jjj) 7. 3(g) / 1(rr) / 1(ddd) 8. 3(h)/ 1(tt) / 1(fff)

Q3	Long answer Questions (LAQ) Four Questions 10 marks each All compulsory All questions on must know No Questions on Nice to know and Desirable to know	1. 1(ff) / 1(jj) / 1(oo) / 1(uu)/1(zz) 2. 2(a) / 2(b) / 2(d) / 1(vv)/1(eee) 3. 3(a) / 3(c) / 1(rr) / 1(xx) 4. 1(gg)/ 1(nn) / 1(ss) / 1(yy)
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6 H - Distribution of Practical Examination

SN	Heads	Marks
1	Practical (Total Marks 100)	
	Spotting: (1) Bone	40
	(2) Specimen	20
	(3) Model	20
	(4) X-Ray	10
	Record Book	10
2	Viva Voce	20
3	Internal	20
4	Electives	10
	Total Marks	150

Table 7. Reference Books/Resources:

S.No.	Name of Book	Name of Author
1	ظ تشریح ع (Tashreeh e izam) Osteology	عبید اللہ Ubaidullah

2	تشریح و ضعی واطلاقی را Anatomy Regional and Applied Head and Neck	س و عنق	عبید اللہ Ubaidullah
3	تشریح و ضعی واطلاقی طر Anatomy Regional and Applied Upper Limb	ف اعلیٰ	عبید اللہ Ubaidullah
4	تشریح و ضعی واطلاقی طر سفل Anatomy Regional and Applied Lower Limb	ف ا	عبید اللہ اور محمد آصف Ubaidullah & Mohd Asif
5	تشریح و ضعی واطلاقی Anatomy Regional and Applied Thorax	صدر	عبید اللہ اور مغیث احمد انصار ی Ubaidullah & Moghees A. Ansari
6	General Anatomy (First Edition)		ابو کاشف انور Abu Kashif Anwar
7	القانون فی ا Al-Qanoon fit Tib (Jild Awwal)	لط	ابن سین Ibn Sina
8	اشرا Ishra		سی کمال الدین حسین ہدانی Kamaluddin Husain Hamdani
9	تشریح صغیر Tashreeh Sagheer		محمد کبیر الدین Mohd Kabeeruddin
10	تشریح کبیر Tashreeh kabeer		محمد کبیر الدین Mohd Kabeeruddin
11	تشریح تصاویر Tashreeh Tasaweer		محمد کبیر الدین Mohd Kabeeruddin
12	تشریح ان Tashreeh e Insani	نی	بیلی رام Beliram LMS

13	تشریح ہیکل Tashreeh e haikal	سی کمال الدین حسین ہدانی Kamaluddin Husain Hamdani
14	تشریح ء الاحشا Tashreehul Ahsha	سی کمال الدین حسین ہدانی Kamaluddin Husain Hamdani
15	تشریح احشاء Tashreeh Ahsha	محمد احمد لاری M A Lari
16	تشریح المفاصل Tashreehul Mafasil	محمد احمد لاری M A Lari
17	تشریح سطحی Tashreeh Sathi	انیس احمد انصار Anis Ahmad Ansari
18	تشریح البدن Tashreehul Badan	ہارون منصور Haroon Mansoori
19	ظ تشریح ال عظام Tashreehul Izam	شبیر احمد Shabbir Ahmad
20	تشریح ال عضلات Tashreehul Azalat	شبیر احمد Shabbir Ahmad
21	Human Anatomy – Regional and Applied Part I, II, III	B D Chourasia
22	General Anatomy	B D Chourasia
23	Gray's Anatomy 42 th edition	Henry Gray
24	Clinical oriented Anatomy 4 th edition	K.L. Koore
25	Fundamentals of Human Anatomy	N. Chakraborty and D. Chakraborty
26	Surface and Radiological Anatomy	A. Halim
27	Tartora's Principles of Anatomy & Physiology	Gerard J Tortora
28	Anatomy 8 th edition	Samar Mitra
29	Snell's clinical Anatomy	Dr. Lawrence E. Weneski
30	Fundamentals of Nervous System	A K Anwar

Subject:-Tashreehul Badan(Anatomy) Paper I

Sl. No	Topic	Hours	Must Know	Desirable to Know	Nice to Know	Weightage
1.	Tashreehul Badan ka ta'aruf (General Human Anatomy)	L- 10hrs NL- 10hrs	Describe -Introduction and history of anatomy -Subdivision of anatomy. Describe positions and planes of the body Describe Body regions: Body cavities (major & minor) Describe Tendon, Ligaments & Bursae. Describe Bones and Cartilages. Describe Muscular system: Naming of muscles -According to location -According to shape -According to number of heads According to attachments According to action According to direction of fibres According to size of muscle. Describe Gross features of a typical skeletal muscle. Describe Joints. Describe Vertebral column: Describe Blood vessels: - Anastomosis: - Types of blood	Describe briefly all systems of the Body. Describe - Anatomical terms: Describe layers and surface pattern of skin. Describe Appendages of skin(Glands and specialised cells) Describe functions of skin. Describe Dermatomes and Angiosomes of skin. Estimate surface area of skin affected by burn. Describe anatomy of ageing skin. Describe Superficial and deep Fasciae.		10MARKS

			<p>circulation.</p> <p>Describe: -Lymphatic system - Components of lymphatic system. Describe General Embryology and genetics.</p>			
2.	Raas (Head)	<p>L- 10hrs</p> <p>NL- 5hrs</p>	<p>Describe Scalp</p> <p>Explain Temporomandibular Joint</p> <p>Explain Articulations of skull.</p> <p>Explain Fontanelles</p> <p>Explain Venous sinuses of skull.</p> <p>Describe sutures and related bony landmarks of skull.</p> <p>Describe Normae - Norma verticalis - Norma occipitalis - Norma lateralis - Norma frontalis - Norma basalis.</p> <p>Explain Pterion.</p> <p>Explain Mastoid and Styloid Process.</p> <p>Describe bones of the neurocranium: -Parieta- -Frontal -Temporal -Occipital -Ethmoid -Sphenoid.</p>	<p>Describe Cranial cavity</p> <p>Describe Cranial fossae and foramina of skull.</p> <p>Explain orbit, extra ocular muscles, eyelids and eyeball.</p> <p>Explain Lacrimal apparatus.</p> <p>Explain Oral cavity.</p>	<p>Describe Special features of the new born skull.</p> <p>Explain Teeth.</p> <p>Describe Infra temporal fossa.</p> <p>Describe pterygopalatine fossa:</p> <p>Describe Auditory tube.</p>	20M

			<p>Describe bones of the viscerocranium: -Mandible -Maxilla -Zygomatic -Nasal -Lacrimal -Vomer -Platine -Inferior choncha Enlist Para nasal Sinuses.</p> <p>Describe Tongue, taste buds and papillae.</p> <p>Describe Salivary Glands.</p> <p>Explain Nose, Nasal septum and Nasal cavity.</p> <p>Describe Ear and Ear ossicles.</p> <p>Enlist Muscles of Mastication.</p> <p>Enlist Muscles of Face.</p> <p>Enlist Muscles of Head.</p> <p>Describe Auditory tube.</p>			
3.	Unq (Neck)	L- 10hrs NL- 5hrs	<p>Describe Pharynx: - Nasopharynx: - Oropharynx: - Laryngopharynx: Describe Palate. Explain Waldeyer's ring. Describe Larynx: - Cartilages -</p>	<p>Describe palatine tonsils.</p> <p>Enlist bones of Neck -Cervical Vertebrae – Hyoid.</p> <p>Describe Atlanto Axial Joint.</p> <p>Describe Atlanto</p>		10 M

			<p>Ligaments - Membranes -Joints -Cavity -Muscles Extrinsic Intrinsic.</p> <p>Describe Oesophagus and associated applied aspect.</p> <p>Describe Trachea and associated applied aspect.</p> <p>Explain Triangles of Neck: -Boundaries - Divisions – Contents.</p> <p>Enlist Muscles of Neck -Anterior - Superficial - Suprahyoid - Infrahyoid -Anterior vertebral -Lateral vertebral -Posterior –Deep</p> <p>Enlist Fascia of Neck.</p> <p>Describe Pharyngeal arches.</p> <p>Enlist Vessels of Neck: -Common carotid artery (Carotid sheath, carotid sinus and carotid body) -Vertebral artery - Thyrocervical trunk -Jugular veins.</p> <p>Describe Pretracheal and Prevertebral fascia.</p> <p>Describe Applied Anatomy of Neck.</p>	<p>Occipital Joint.</p> <p>Explain Thyroid Gland.</p> <p>Explain Para Thyroid Gland</p>		
4.	NizameA'asabwadimaghiya(Nervous System)	L- 15hrs	Explain division of the NS.	Draw diagram of spinal cord	Identify Prenatal and post-natal	10M

		<p>NL-5hrs</p>	<p>Explain meninges - Duramater: - Arachnoid mater – Piamater</p> <p>Demonstrate diagram of meninges.</p> <p>Describe Brain - Prosencephalon - Mesencephalon - Rhombencephalon Describe Spinal cord -TS of spinal cord -Blood supply - Meninges - Denticulate ligament.</p> <p>Describe Peripheral nervous system - Spinal nerves.</p> <p>Describe Cranial nerves.</p> <p>Describe Autonomic Nervous System - Sympathetic Nervous System (thoracolumbar outflow) - Parasympathetic Nervous System (craniosacral outflow) - Enteric Nervous System (ENS)</p> <p>Explain Ventricles of Brain.</p> <p>Draw diagram of brain</p> <p>Explain Cerebrospinal fluid.</p> <p>Explain Thalamus & Hypothalamus.</p> <p>Explain Circle of</p>	<p>Describe Structure of neuron</p> <p>Explain supporting cells of Neuron - Neuroglia (CNS) - Schwann and Satellite (PNS)</p> <p>Explain Limbic system.</p> <p>Explain Pineal body</p>	<p>development of brain.</p>	
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			<p>Willis</p> <p>Describe Sensory system.</p> <p>Describe motor system</p>			
5.	Sadr (Thorax)	<p>L- 35hrs</p> <p>NL- 20hrs</p>	<p>Describe Thoracic wall, its functions and associated applied aspect - Muscles -Joints - Costal Cartilages</p> <p>Describe Mediastinum and its Division.</p> <p>Describe Thoracic Cavity and suprapleural membrane.</p> <p>Describe Bones of Thorax and associated applied aspect -Sternum - Thoracic vertebra – Rib</p> <p>Describe Pleura and associated applied aspect.</p> <p>Describe Lungs and associated applied aspect.</p> <p>Describe Diaphragm and associated applied aspect.</p> <p>Describe Mammary Gland) and associated applied aspect.</p> <p>Describe</p>	<p>Describe Sternal angle/ Angle of Louis.</p> <p>Describe Intercostal space - Muscles - Neuromuscular bundle.</p> <p>Describe Heart and associated applied aspect.</p> <p>Enlist Arteries and veins of Thorax.</p> <p>Describe Thymus.</p>		30M

			<p>Pericardium and associated applied aspect.</p> <p>Describe Azygos system of Veins.</p> <p>Describe Aorta.</p> <p>Describe Superior and Inferior Vena cava.</p> <p>Explain Thoracic duct.</p>			
6.	TarfeA'ala (Upper Limb)	20hrs	<p>Describe Bones of the pectoral (shoulder) girdle and associated applied aspect</p> <p>-Clavicle</p> <p>-Scapula</p>	<p>Describe Joints of Upper limb and associated applied aspect</p> <p>-Shoulder</p> <p>-Elbow</p> <p>-Wrist</p> <p>-Carpometacarpal - Metacarpophalangea 1</p> <p>Metacarpophalangea 1</p> <p>-Proximal-interphalangeal</p> <p>-Distal-interphalangeal joint</p>		
			<p>Describe Muscles connecting upper limb to the thoracic wall</p>	<p>Describe Vessels of upper limb and associated applied aspect</p>		
			<p>Describe Muscles connecting upper limb to the vertebral column</p>	<p>Describe the palm and associated applied aspect</p>		
			<p>Describe Muscles connecting scapula to the humerus</p>			
			<p>Describe Axilla and associated applied aspect</p>			
			<p>Describe Cubital fossa and</p>			

			associated applied aspect			
			Describe the upper arm and associated applied aspect -Contents of anterior fascial compartment -Contents of posterior fascial compartment			
			Describe Bones of the Upper arm and associated applied aspect -Humerus			
			Describe Forearm: -Contents of the anterior fascial compartment -Muscles: (origin, insertion, actions) -Contents of the lateral fascial compartment -Contents of the posterior fascial compartment			
			Describe Bones of the Upper arm and associated applied aspect -Humerus			
			Describe Forearm: -Contents of the anterior fascial compartment -Muscles: (origin, insertion,actions) -Contents of the lateral fascial compartment -Contents of the posterior fascial compartment			
			Describe Bones of the Forearm and associated applied aspect -Radius -Ulna			
			Describe Anatomical snuff			

Subject:-Tashreehul Badan(Anatomy) Paper I

			box (boundaries, contents and clinical anatomy)			
			Describe dorsum of hand and associated applied aspect			
			Describe Bones of the hand and associated applied aspect -Carpals -Metacarpals -Phalanges			
			Explain Brachial Plexus and Major nerves of upper limb			
			Describe rotator cuff			

Learning objectives of TASHREEHUL BADAN UNIUG-TB-Paper-II (Theory)

Sr. No`	Topic	Hours	Learning content distribution			Weight age
			Must know	Desirable to know	Nice to know	
01	Batn (Abdomen)	L- 40h NL 30h	Describe the Abdominal regions and enlist their contents			40
			Describe the Abdominal regions and enlist their contents			
			Enlist and explain the layers of Anterior Abdominal Wall and associated			

Subject:-Tashreehul Badan(Anatomy) Paper I

			applied aspect			
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Sr. No`	Topic	Hours	Learning content distribution			Weight age
			Must know	Desirable to know	Nice to know	
			Describe muscles of anterior abdominal wall and associated applied aspect	Describe Cremaster and Pyramidalis and associated applied aspect	Explain Nerves on the posterior abdominal wall and associated applied aspect	
			Describe External Oblique and associated applied aspect	Define Fascia Transversalis and associated applied aspect		
			Describe Internal Oblique and associated applied aspect	Explain the Posterior Abdominal Wall and its structure		

Subject:-Tashreehul Badan(Anatomy) Paper I

			Describe Transverses Abdominis and associated applied aspect	Explain Inferior vena cava and associated applied aspect Portal vein		
			Describe Rectus Abdominis and associated applied aspect			
			Describe rectus sheath and associated applied aspect			
			Identify the arteries of the anterior abdominal wall and associated applied aspect			
			Enlist deep nerves of the anterior abdominal wall and associated applied aspect			

v

			Describe the Inguinal region (groin) and associated applied aspect			
			Explain the Inguinal canal and associated applied aspect			

			Describe Peritoneum: Peritoneal pouches, recesses, spaces and gutters and associated applied aspect			
			Identify and discuss the subdivisions of peritoneal cavity and associated applied aspect			
			Describe abdominal oesophagus and associated applied aspect			
			Describe Anatomy of Stomach and associated applied aspect			
			Describe duodenum, ileum and associated applied aspect			
			Describe Jejunum and associated applied aspect			

			Describe Gallbladder: and associated applied aspect			
			Describe Liver and associated applied aspect			
			Describe the anatomy of portal vein and its applied aspect			
			Describe Extra hepatic biliary apparatus and associated applied aspect			
			Describe Pancreas and associated applied aspect			
			Describe Spleen: and associated applied aspect			
			Describe Caecum: and associated applied aspect			

Subject:-Tashreehul Badan(Anatomy) Paper I

			Describe Appendix: and associated applied aspect			
			Describe Ascending colon: and associated applied aspect			
			Describe Descending colon: and associated applied aspect			

VV

			Describe the Superior and Inferior Mesenteric Vessels			
			Describe Kidneys: and associated applied aspect			
			Describe foramen of Winslow			

			Describe Coelic trunk			
			Describe Cisterna chyli			
			Describe Ureter and associated applied aspect			
			Describe Suprarenal glands: and associated applied aspect			
			Describe the muscles of the Posterior Abdominal Wall			
			Name and explain the fasciae of posterior abdominal wall			
			Explain abdominal aorta and associated applied aspect			

			Label the lymphatics and lymph nodes of the Posterior abdominal wall			
			Describe Lumbar vertebrae			
2	- A'ana wa ejan (Pelvis and Perineum)	L- 30 h NL- 15h	Explain Bony pelvis -Pelvic walls -Pelvic diaphragm - Bony landmarks	Describe Sacrum and coccyx:	Explain Anal canal	30
			Describe Muscles of pelvic wall and floor	Describe Contents of the pelvic cavity - Sigmoid colon - Rectum		
			Describe Muscles of perineum	Describe The perineum -Anal triangle- Superficial perineal pouch - Deep perineal pouch		
			Describe Pelvic viscera: -Ureters -Urinary bladder -Urethra			
			Describe Male genital organs - Prostate -Testes -Penis -Seminal vesicles - Bulbourethral glands			

Subject:-Tashreehul Badan(Anatomy) Paper I

			Explain Female genital organs - Ovaries - Uterine tubes - Uterus -Vagina -Vulva - Mammary glands			
			Describe Urogenital diaphragm			
			Describe Ischiorectal fossa			
			Describe Urogenital triangle			
			Explain Joints of the pelvis			
			Describe Pelvic fascia, Pelvis and peritoneum Explain Joints of the pelvis			
			Describe Sex differentiation of pelvis			

3	Tarfe Asfal (Lower Limb)	L- 30h NL- 15h	Describe Gluteal region - Bones (Ilium Ischium and Pubis) - Muscles (origin, insertion, nerve supply and actions) -Nerves -Arteries - Applied aspect	Describe Joints of Lower limb and associated applied aspect - Hip -Knee - Proximal and tibiofibular joint -Ankle - Tarsometatarsal - Metatarsophalangeal - Proximalinterphalangeal - Distalinterphalangeal -Subtalar		30
			Describe Anterior fascial (extensor) compartment of thigh -Muscles (origin, insertion, nervesupply and actions) of Anterior fascial compartment	Describe Medial fascial (adductor) compartment of thigh: Muscles (origin, insertion, nerve supply and actions)		
			Describe Posterior fascial (hamstring/ flexor) compartment of thigh: -Muscles (origin, insertion, nerve supply and actions):	Describe fascial compartments of the leg - Anterior (extensor)&muscles -Lateral fascial (peroneal) compartment of leg&muscles - Posterior fascial (flexor) compartment of leg&muscles		
			Describe Posterior fascial (hamstring/ flexor) compartment of thigh: -Muscles (origin, insertion, nerve supply and actions)	Demonstrate movements of foot		

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			Describe Bones of the leg - Femur -Tibia - Fibula			
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			Describe bones of the foot - Tarsals -Meta- tarsals - Phalanges			
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			Explain popliteal fossa			
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			Describe Ankle region -Anterior aspect of ankle - Posterior aspect of ankle Sole of the foot: Muscles of the sole (origin, insertion, nerve supply and actions): Dorsum of the foot			
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			Describe sole and dorsum of the foot: - Muscles of the sole (origin, insertion, nerve supply and actions):			
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			Explain Arches of the foot:			
			Explain Femoral & Adductor canal			
			Explain Femoral Triangle			
			Explain Lumbar Plexus and Major nerves of Lower limb			
			Explain Sacral Plexus			
			Describe Suprarenal glands: and associated applied aspect			
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			Describe Suprarenal glands: and associated applied aspect			
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Subject:-Tashreehul Badan(Anatomy) Paper I

			Describe Suprarenal glands: and associated applied aspect			
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			Describe Suprarenal glands: and associated applied aspect			
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Sl no	Non lecture teaching learning activity	Topic
1.	Animation	Describe positions and planes of the body Describe Joints Describe Vertebral column: Explain Articulations of Skull Describe sutures and related bony landmarks of skull Explain Lacrimal Explain teeth Explain applied anatomy of head Describe atlantoaxial joint Explain triangles of neck Explain meninges of brain Describe spinal cord Draw diagram of brain Draw diagram of spinal cord Explain pineal body Describe diaphragm and associated applied aspect Describe cubital fossa associated applied aspect
2.	Discussion	Describe body region body cavities major and minor Describe superficial and deep fasciae Explain oral cavity Describe palate Explain thyroid gland Explain parathyroid Enlist vessels of neck common carotid artery Explain division of NS Describe cranial nerves Explain ventricles of brain Describe azygous system of veins Explain thoracic duct Describe upper arm and associated applied aspect Describe bones of forearm and associated applied aspect of Radius and ulna
3.	videos	Explain temporomandibular joint Describe cranial cavity Describe cranial fossa and foramina of skull Explain frontanelles Enlist paranasal sinuses Explain nose , nasal septum and nasal cavity Describe ear and ear ossicles Describe pharynx

		<p>Explain waldeyer's ring</p> <p>Describe trachea and associated applied aspect</p> <p>Enlist muscles of neck anterior , superficial, suprahyoid , infrahyoid , anterior vertebral , lateral vertebral, posterior deep.</p> <p>Explain supporting cells of neuron neuroglial(CNS), schwann and satellite cells(PNS)</p> <p>Explain circle of Willis</p> <p>Describe mediastinum and its division</p> <p>Describe lungs and associated applied aspect</p> <p>Describe joints of upper limb and associated applied aspect</p> <p>Describe axilla and associated applied aspect</p> <p>Explain brachial plexus and major nerves of upper limbs</p>
4.	Maps	<p>Describe normaverticalis , norma occipitalis , normafrontalis , norma basalis</p> <p>Describe structure of neuron</p> <p>Explain cerebrospinal fluid</p> <p>Identify prenatal and post natal development of brain</p> <p>Describe sternal angle/angle of louis</p> <p>Describe pleura and associated applied aspect</p> <p>Describe pericardium and associated applied aspect</p> <p>Describe and associated applied aspect</p> <p>Describe aorta</p> <p>Describe bone of pectoral(shoulder girdle)</p>
5.	Departmental seminar	<p>Explain pterion</p> <p>Describe bone of viscerocranium -mandible, zygomatic -nasal</p> <p>Lacrimal , vomer, palatine, inferior choncha</p> <p>Explain orbit, extra ocular muscles of eyelids and eyeball</p> <p>Enlist bones of the neck- cervical, vertebral and hyoid</p> <p>Describe thoracic cavity and supra pleural membrane</p> <p>Describe bones of the upper limb</p>

6.	Early clinical exposure	Describe special features of new born skull Describe applied anatomy of neck
7.	Project based learning	Enlist muscles of face
8.	Demonstration	Demonstrate diagram of meninges Describe thoracic wall its function and associated applied aspect- muscles , joints, costal cartilage Describe thoracic cavity and suprapleural membrane Describe vessels of upper limb and associated applied aspect Describe forearm contents of the anterior fascial compartment Muscles origin insertion and action , contents of lateral fascial compartment, contents of posterior fascial compartment Describe anatomical snuff box its boundaries, contents and clinical anatomy
9.	Guest lecture	Explain circle of Willis
10.	Small group discussion	Explain division of nasal septum Describe bones of the thorax and associated applied aspect -sternum, thoracic vertebra and ribs Describe intercostal space , muscles , neuromuscular bundle Describe mammary gland and associated applied aspect Enlist arteries and veins of thorax Describe the palm and associated applied aspect .

Tashreeh ul Badan (Paper II) Non lecture teaching learning activities

Sl no	Activity	Topic
1.	Departmental Seminar	Describe Anatomy of Stomach and associated applied aspect, Describe Pancreas and associated applied aspect Describe Kidneys: and associated applied aspect Describe Lumbar vertebrae
		Describe Gluteal region -Bones (Ilium, Ischium and Pubis) -Muscles (origin, insertion, nerve supply and actions) -Nerves -Arteries -Applied aspect
2.	Demonstration	Describe Ureter and associated applied aspect Explain the Posterior Abdominal Wall and its structure Describe the muscles of the Posterior Abdominal Wall Explain Inferior vena cava and associated applied aspect Portal vein Label the lymphatics and lymph nodes of the Posterior abdominal wall Explain Bony pelvis -Pelvic walls -Pelvic diaphragm -Bony landmarks Describe Sacrum and coccyx:

Subject:-Tashreehul Badan(Anatomy) Paper I

		Describe Ischiorectal fossa
		Explain Joints of the pelvis
		Describe Sex differentiation of pelvis
		Demonstrate movements of foot
3.	Guest Lecture	Explain Femoral Triangle
4.	Video	Describe the abdominal regions and enlist their contents
5.	Maps	Describe rectus abdominis and associated applied anatomy aspects Explain the inguinal canal and associated applied aspects Describe urogenital triangle Describe pelvic fascia, pelvis and peritoneum
6.	Project based learning	Describe peritoneum ,peritoneal pouches, recesses, spaces and gutters and associated applied aspects
7.	Discussions	Identify and discuss the subdivisions of peritoneal cavity and associated applied aspect Describe Extra hepatic biliary apparatus and associated applied aspect Describe the Superior and Inferior Mesenteric Vessels Describe Suprarenal glands: and associated applied aspect Name and explain the fasciae of posterior abdominal wall Explain Nerves on the posterior abdominal wall and associated applied aspect Describe Clinical Anatomy of Pelvis
8.	Small group discussion	Describe The perineum -Anal triangle Superficial perineal pouch -Deep perineal pouch Describe Urogenital diaphragm Describe Ischiorectal fossa Explain Joints of the pelvis Describe Sex differentiation of pelvis Describe Ankle region -Anterior aspect of ankle -Posterior aspect of ankle Sole of the foot: Muscles of the sole (origin, insertion, nerve supply and actions): Dorsum of the foot Describe sole and dorsum of the foot: -Muscles of the sole (origin, insertion, nerve supply and actions):

S.NO	Chapter	Marks distribution					Total Marks
		Must Know	Desirable to Know	MCQ`S	SAQ	LAQ	
1	Tashreehul Badan ka ta'aruf (General Human Anatomy)			1Marks	5Marks	10Marks	10

	<p>1-Describe -Introduction and history of anatomy -Subdivision of anatomy</p> <p>2- Describe positions and planes of the body</p> <p>3- Describe Body regions: Body cavities (major & minor)</p> <p>4-Describe Tendon, Ligaments & Bursae</p> <p>5-Describe Bones and Cartilages</p> <p>6-Describe Muscular system: Naming of muscles -According to location -According to shape -According to number of heads -According to attachments -According to action -According to direction of fibres</p> <p>7-Describe Gross features of a typical skeletal muscle</p> <p>8-Describe Joints</p> <p>Describe Vertebral column:</p> <p>10-Describe</p>	<p>1- Describe briefly all systems of the Body</p> <p>2- Describe Anatomical terms:</p> <p>3-Describe layers and surface pattern of skin</p> <p>4-Describe Appendages of skin(Glands and specialised cells)</p> <p>5-Describe functions of skin</p> <p>6-Describe Dermatomes and Angiosomes of skin</p> <p>7-Estimate surface area of skin affected by burn</p> <p>8-Describe anatomy of ageing skin</p> <p>9-Describe Superficial and deep Fasciae</p>	<p>✓</p>	<p>✓</p>	<p>•</p>	
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		<p>Blood vessels: -Anastomosis: -Types of blood circulation</p> <p>11-Describe: -Lymphatic system -Components of lymphatic system</p> <p>12-Describe General Embryology and genetics</p>					
2	Raas (Head)	<p>1-Describe Scalp</p> <p>2-Explain Temporomandibular Joint</p> <p>3-Explain Articulations of skull</p> <p>4-Explain Fontanelles</p> <p>5-Explain Venous sinuses of skull</p> <p>6-Describe sutures and related bony landmarks of skull</p> <p>7-Describe Normae -Norma verticalis -Norma occipitalis -Norma lateralis -Norma frontalis -Norma basalis.</p> <p>8-Explain Pterion.</p> <p>9-Explain Mastoid and Styloid Process</p> <p>10-Describe</p>	<p>1-Describe Cranial cavity</p> <p>2-Describe Cranial fossae and foramina of skull</p> <p>3-Explain orbit, extra ocular muscles, eyelids and eyeball</p> <p>4-Explain Lacrimal apparatus</p> <p>5-Explain Oral cavity</p>	✓	✓	✓	

		<p>bones of the neurocranium:</p> <ul style="list-style-type: none">-Parieta--Frontal-Temporal-Occipital-Ethmoid-Sphenoid. <p>11-Describe bones of the viscerocranium: -</p> <p>Mandible</p> <ul style="list-style-type: none">-Maxilla-Zygomatic-Nasal-Lacrimal-Vomer-Platine-Inferior choncha <p>12-Enlist Para nasal Sinuses</p> <p>13-Describe Tongue, taste buds and papillae</p> <p>14-Describe Salivary Glands</p> <p>15-Explain Nose, Nasal septum and Nasal cavity</p> <p>16-Describe Ear and Ear ossicles</p> <p>17-Enlist Muscles of Mastication</p>					
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		<p>18-Enlist Muscles of Face.</p> <p>19-Enlist Muscles of Head.</p> <p>20-Describe Auditory tube</p>					
3	Unq (Neck)	<p>1-Describe Pharynx: - Nasopharynx: - Oropharynx: - Laryngopharynx:</p> <p>2-Describe Palate.</p> <p>3-Explain Waldeyer's ring.</p> <p>4-Describe Larynx: - Cartilages –</p> <p>5-Ligaments - Membranes - Joints -Cavity - Muscles Extrinsic Intrinsic.</p> <p>6-Describe Oesophagus and associated applied aspect.</p> <p>7-Describe Trachea and</p>	<p>1-Describe palatine tonsils.</p> <p>2-Enlist bones of Neck - Cervical Vertebrae – Hyoid.</p> <p>3-Describe Atlanto Axial Joint.</p> <p>4-Describe Atlanto Occipital Joint.</p> <p>5-Explain Thyroid Gland.</p>	✓	✓	✓	10

	<p>associated applied aspect.</p> <p>8-Explain Triangles of Neck: -Boundaries - Divisions – Contents.</p> <p>9-Enlist Muscles of Neck -Anterior -Superficial - Suprahyoid - Infrahyoid - Anterior vertebral -Lateral vertebral -Posterior –Deep</p> <p>10-Enlist Fascia of Neck.</p> <p>11-Describe Pharyngeal arches.</p> <p>12-Enlist Vessels of Neck: - Common carotid artery (Carotid sheath, carotid sinus and carotid body)</p> <p>13-Vertebral artery - Thyrocervical trunk -Jugular veins.</p> <p>14-Describe Pretracheal and Prevertebral fascia.</p> <p>15-Describe Applied Anatomy of Neck.</p>	<p>6-Explain Para Thyroid Gland</p>				
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4	<p><i>Nizame A'asab wa dimaghiya(Nervous System)</i></p>	<p>1-Explain division of the NS. Explain meninges - Duramater: - Arachnoid mater -Piamater</p> <p>2-Demonstrate diagram of meninges.</p> <p>3-Describe Brain - Prosencephalon - Mesencephalon - Rhombencephalon Describe Spinal cord -TS of spinal cord -Blood supply -Meninges -Denticulate ligament.</p> <p>4-Describe Peripheral nervous system - Spinal nerves.</p> <p>5-Describe Cranial nerves.</p> <p>6-Describe Autonomic Nervous System - Sympathetic Nervous System (thoracolumbar outflow) - Parasympatheti c</p>	<p>1-Draw diagram of spinal cord</p> <p>2-Describe Structure of neuron</p> <p>3-Explain supporting cells of Neuron - Neuroglia (CNS) - Schwann and Satellite (PNS)</p> <p>4-Explain Limbic system.</p> <p>5-Explain Pineal body</p>	✓	✓	•	10

		<p>Nervous System (craniosacral outflow) - Enteric Nervous System (ENS)</p> <p>7-Explain Ventricles of Brain.</p> <p>8-Draw diagram of brain</p> <p>9-Explain Cerebrospinal fluid.</p> <p>10-Explain Thalamus & Hypothalamus.</p> <p>11-Explain Circle of Willis</p> <p>12-Describe Sensory system.</p> <p>13-Describe motor system</p>					
5	Sadr (Thorax)	<p>1-Describe Thoracic wall, its functions and associated applied aspect - Muscles -Joints -</p>	<p>Describe Sternal angle/ Angle of Louis.</p> <p>Describe</p>	✓	✓	✓	30

	<p>Costal Cartilages</p> <p>2-Describe Mediastinum and its Division.</p> <p>3-Describe Thoracic Cavity and suprapleural membrane.</p> <p>4-Describe Bones of Thorax and associated applied aspect - Sternum - Thoracic vertebra -Rib</p> <p>5-Describe Pleura and associated applied aspect.</p> <p>6-Describe Lungs and associated applied aspect.</p> <p>7-Describe Diaphragm and associated applied aspect.</p> <p>8-Describe Mammary Gland) and associated applied aspect.</p> <p>9-Describe Pericardium and associated applied aspect.</p> <p>10-Describe Azygos system of Veins.</p> <p>11-Describe Aorta.</p> <p>12-Describe Superior and</p>	<p>Intercostal space - Muscles - Neuromuscular bundle.</p> <p>Describe Heart and associated applied aspect.</p> <p>Enlist Arteries and veins of Thorax.</p> <p>Describe Thymus.</p>				
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		Inferior Vena cava. 13-Explain Thoracic duct.					
6	Tarfe A'ala (Upper Limb)	1-Describe Muscles connecting upper limb to the vertebral column	1-Describe Joints of Upper limb and associated applied aspect -Shoulder -Elbow -Wrist - Carpometacarpal - Metacarpophalangeal Metacarpophalangeal -Proximal-interphalangeal -Distal-interphalangeal joint	✓	✓	✓	20
		2-Describe Muscles connecting scapula to the humerus	2-Describe Vessels of upper limb and associated applied aspect	✓	✓	✓	
		3-Describe Axilla and associated applied aspect	3-Describe the palm and associated applied aspect	✓	✓	✓	
		4-Describe Cubital fossa and associated applied aspect		✓	✓	✓	

		5-Describe the upper arm and associated applied aspect -Contents of anterior fascial compartment -Contents of posterior fascial compartment		✓	✓	✓	
		6-Describe Bones of the Upper arm and associated applied aspect -Humerus		✓	✓	✓	
		7-Describe Forearm: -Contents of the anterior fascial compartment -Muscles: (origin, insertion, actions) -Contents of the lateral fascial compartment -Contents of the posterior fascial compartment		✓	✓	✓	
		8-Describe Bones of the Upper arm and associated applied aspect -Humerus		✓	✓	✓	
		9-Describe Forearm: -Contents of the anterior fascial compartment -Muscles: (origin, insertion, actions) -Contents of the lateral fascial compartment -Contents of the posterior fascial compartment		✓	✓	✓	
		10-Describe Bones of the Forearm and associated		✓	✓	✓	

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		applied aspect -Radius -Ulna					
		11-Describe Anatomical snuff box (boundaries, contents and clinical anatomy)		✓	✓	✓	
		12-Describe dorsum of hand and associated applied aspect		✓	✓	✓	
		13-Describe Bones of the hand and associated applied aspect -Carpals -Metacarpals -Phalanges		✓	✓	✓	
		14-Explain Brachial Plexus and Major nerves of upper limb		✓	✓	✓	
		15-Describe rotator cuff		✓	✓	✓	

S.NO	Chapter	Marks distribution					Total Marks
		Must Know	Desirable to Know	MCQ`S 1Marks	SAQ 5Mark s	LAQ 10Mark s	
1	Batn (Abdomen)						40

	Describe the Abdominal regions and enlist their content	Describe Cremaster and Pyramidalis and associated applied aspect	✓	✓	✓	
	Describe the Abdominal regions and enlist their contents	Define Fascia Transversalis and associated applied aspect				
	Enlist and explain the layers of Anterior Abdominal Wall and associated applied aspect	Explain the Posterior Abdominal Wall and its structure				
	Describe muscles of anterior abdominal wall and associated applied aspect	Explain Inferior vena cava and associated applied aspect Portal vein				
	Describe External Oblique and associated applied aspect					
	Describe Internal Oblique and associated applied aspect					
	Describe Transverses Abdominis and associated applied aspect					
	Describe Rectus Abdominis and associated applied aspect					
	Describe rectus sheath and associated applied aspect					

		<p>Identify the arteries of the anterior abdominal wall and associated applied aspect</p> <p>Enlist deep nerves of the anterior abdominal wall and associated applied aspect</p> <p>Describe the Inguinal region (groin) and associated applied aspect</p> <p>Explain the Inguinal canal and associated applied aspect</p> <p>Describe Peritoneum: Peritoneal pouches, recesses, spaces and gutters and associated applied aspect</p> <p>Identify and discuss the subdivisions of peritoneal cavity and associated applied aspect</p> <p>Describe abdominal oesophagus and associated applied aspect</p> <p>Describe</p>					
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	<p>Anatomy of Stomach and associated applied aspect</p> <p>Describe duodenum, ileum and associated applied aspect</p> <p>Describe Jejunum and associated applied aspect</p> <p>Describe Gallbladder: and associated applied aspect</p> <p>Describe Liver and associated applied aspect</p> <p>Describe the anatomy of portal vein and its applied aspect</p> <p>Describe Extra hepatic biliary apparatus and associated applied aspect</p> <p>Describe Pancreas and associated applied aspect</p> <p>Describe Spleen: and associated applied aspect</p> <p>Describe Caecum: and associated applied aspect</p> <p>Describe</p>					
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		<p>Ascending colon: and associated applied aspect</p> <p>Describe Descending colon: and associated ap</p> <p>Describe the Superior and Inferior Mesenteric Vessels applied aspect</p> <p>Describe Kidneys: and associated applied aspect</p> <p>Describe foramen of Winslow</p> <p>Describe Coelic trunk</p> <p>Describe Cisterna chyli</p> <p>Describe Ureter and associated applied aspect</p> <p>Describe Suprarenal glands: and associated applied aspect</p> <p>Describe the muscles of the Posterior Abdominal Wall</p> <p>Name and explain the fasciae of posterior abdominal wall</p>					
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		<p>Explain abdominal aorta and associated applied aspect</p> <p>Label the lymphatics and lymph nodes of the Posterior abdominal wall</p> <p>Describe Lumbar vertebrae</p>					
2	- A'ana wa ejan (Pelvis and Perineum)	<p>Explain Bony pelvis -Pelvic walls -Pelvic diaphragm -Bony landmarks</p> <p>Describe Muscles of pelvic wall and floor</p> <p>Describe Muscles of perineum</p> <p>Describe Pelvic viscera: -Ureters -Urinary bladder -Urethra</p> <p>Describe Male genital organs - Prostate -Testes - Penis -Seminal vesicles - Bulbourethral glands</p> <p>Explain Female genital organs - Ovaries -Uterine tubes -Uterus - Vagina -Vulva - Mammary glands</p>	<p>Describe Sacrum and coccyx:</p> <p>Describe Contents of the pelvic cavity -Sigmoid colon – Rectum</p> <p>Describe The perineum -Anal triangle-Superficial perineal pouch - Deep perineal pouch</p>	✓	✓	✓	30

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		<p>Describe Urogenital diaphragm</p> <p>Describe Ischiorectal fossa</p> <p>Describe Urogenital triangle</p> <p>Explain Joints of the pelvis</p> <p>Describe Pelvic fascia, Pelvis and peritoneum</p> <p>Explain Joints of the pelvis</p> <p>Describe Sex differentiation of pelvis</p>					
3	Tarfe Asfal (Lower Limb)	<p>Describe Gluteal region -Bones (IliumIschium and Pubis) - Muscles (origin, insertion, nerve supply and actions) -Nerves - Arteries -Applied aspect</p> <p>Describe Anterior fascial (extensor) compartment of thigh -Muscles</p>	<p>Describe Joints of Lower limb and associated applied aspect -Hip -Knee - Proximal and tibiofibular joint - Ankle - Tarsometatarsal - Metatarsophalangeal - Proximalinterphalangeal - Distalinterphalangeal -Subtalar</p>	✓	✓	✓	30

		<p>(origin, insertion, nervesupply and actions) of Anterior fascial compartment</p> <p>Describe Posterior fascial (hamstring/ flexor) compartment of thigh: -Muscles (origin, insertion, nerve supply and actions):</p> <p>Describe Posterior fascial (hamstring/ flexor) compartment of thigh: -Muscles (origin, insertion, nerve supply and actions)</p> <p>Describe Bones of the leg -Femur -Tibia –Fibula</p> <p>Describe bones of the foot - Tarsals -Meta-tarsals – Phalanges</p> <p>Explain popliteal fossa</p> <p>Describe Ankle region -Anterior aspect of ankle - Posterior aspect of ankle Sole of the foot: Muscles of the sole (origin insertion, nerve supply and actions): Dorsum</p>	<p>Describe Medial fascial (adductor) compartment of thigh: Muscles (origin, insertion, nerve supply and actions)</p> <p>Describe fascial compartments of the leg -Anterior (extensor)&muscles -Lateral fascial (peroneal) compartment of leg&muscles - Posterior fascial (flexor) compartment of leg&muscles</p> <p>Demonstrate movements of foot</p>				
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		<p>of the foot</p> <p>Describe sole and dorsum of the foot: -Muscles of the sole (origin, insertion, nerve supply and actions)</p> <p>Explain Arches of the foot:</p> <p>Explain Femoral & Adductor canal</p> <p>Explain Femoral Triangle</p> <p>Explain Lumbar Plexus and Major nerves of Lower limb</p> <p>Explain Sacral Plexus</p> <p>Demonstrate movements of foot</p>					
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Scheme of assessment (Formative and Summative)

PROFESSIONAL COURSE	Topics for Assessment			
	1 st PA Topics (A-1,2,3)	2 nd PA Topics (B-1,2,3)	3 rd PA Topics (C-1,2,3)	
First term (1-6 months)	<ol style="list-style-type: none"> 1. A brief description of systems of the Body) 2. Anatomical position and related terminologies 3. Skin and its appendages 4. Superficial and deep Fasciae) 5. Tendon, Ligaments and Bursae 6. Bones: (Types, functions and ossification 7. Muscles(Types and functions) 8. (Joints, Types and movements) 9. (General Embryology and Genetics) 	<ol style="list-style-type: none"> 1. General description and views of Skull 2. Temporomandibular joint) 3. Oral Cavity, Gums, Teeth and Pharynx 4. Nose, nasal cavity and Paranasal sinuses 5. (Ear) 6. (Contents of Orbit 7. Eyelids) 8. Lacrimal apparatus) and Eye ball 9. Salivary glands 	<ol style="list-style-type: none"> 1. (Lower Limb) 2. (Bones) 3. (Muscles) 4. (Joints 5. Vessels and nerves 6. (Fossae) 7. (Femoral triangle) 8. Adductor canal) 9. Popliteal fossa) 	Gene 1.Sku 2.Nos 3.Ear 4.Sali gland
Second Term (7-12 months)	<ol style="list-style-type: none"> 1.Brief description of Triangles of the Neck. 2. Muscles of the Neck 3. Vessels and nerves 4.larynx and trachea 5.oesophagus 6.lymphnodes of head and neck 7.Cervical vertebrae 8.Thyroid and para thyroid glands 9.Thoracic cavity 10.Ribs sternum and thoracic vertebrae 11.Muscles of thorax 	<ol style="list-style-type: none"> 1.A brief description of meninges ,brain and spinal cord 2. cranial and spinal nerves 3.pleura and lungs 4. Mediastenum and its contents 5. vessels , nerves and thoracic duct 6. Pericardium and heart 7.Diaphragm 8.Mammary glands 9.Abdominal regions 10.Anterior abdominal wall 11.External Oblique and Internal Oblique muscle. 12. Transversus Abdominis and Rectus Abdominis muscle 13.Rectus sheath 14.Cremaster and Pyramidalis muscle 15.Arteries and nerves of the anterior 	<ol style="list-style-type: none"> 1. Abdominal part of the esophagus and its applied anatomy 2. Stomach and its applied anatomy 3. Duodenum and its applied anatomy) 4. Jejunum along with its applied anatomy 5. Ileum along with its applied anatomy 6. Liver and its applied anatomy 7. Portal vein and its applied anatomy 8. Extrahepatic Biliary Apparatus along with its applied anatomy 9.)Pancreas and its 	1.Nec 2.Ner 3.Tho 4.Abc

		abdominal wall 16.Fascia Transversalis 17. Inguinal region (groin) and Inguinal canal 18.Mesentry and Omentum, Peritoneum. 19.Ligaments of peritoneum	applied anatomy 10. Spleen and its applied anatomy 11. Caecum and its applied anatomy 12. Appendix and its applied anatomy 13. Colon and its applied anatomy 14. Vessels Mesenteric Inferior and Superior	
Third Term (13-18 months)	Upper Limb 1. Bones 2. Muscles 3. Joints) 4. Axilla and Cubital fossa) Vessels and nerves	1. (Pelvis, perineum and Ischiorectal fossa) 2. Sacrum and coccyx 3. (Muscles and joints of pelvis Pelvic viscera and External Male/Female sex organs	1. Kidneys and its applied anatomy 2. External male and female genital organs and its applied anatomy 3. Suprarenal Glands and its applied anatomy 4. Posterior Abdominal Wall 5. Abdominal Aorta 6. Inferior Vena Cava Wall 7. Abdominal Aorta Inferior Vena Cava	1 2 P

Calculation of Internal assessment

	PERIODICALASSESSMENT				TERMTEST
	A	B	C	D	E

Subject:-Tashreehul Badan(Anatomy) Paper I

TERM	1 (20)	2 (20)	3 (20)	Average(A +B+C/3) 20	Term Test (MCQ+SAQ+LAQ) And Practical (Maximum20)
FIRST					
SECOND					
THIRD					NIL
FinalIA	AverageofThree TermAssessmentMarksasShownin‘G’Column				

Subject-Tashreeh ul Badan

Question Paper blueprint Paper-I

A Question sr no	B Type of Question	C Question Paper Format
I	MCQ	15 must know, 3 desirable to know, 2 Nice to know
	1.	A brief description of systems of the Body, General Embryology and Genetics Brief description of Triangles of the Neck
	2.	Anatomical position and related terminologies, Temporomandibular joint
	3.	Skin and its appendages, Oral Cavity, Gums, Teeth and Pharynx
	4.	Superficial and deep Fasciae, Nose, nasal cavity and Paranasal sinuses
	5.	Tendon, Ligaments and Bursae, Ear
	6.	Bone Types, functions and ossification, Contents of Orbit, Eyelids
	7.	Muscles -Types and functions, Lacrimal apparatus and Eye ball
	8.	Joints, Types and movements, Salivary glands
	9.	General description and views of Skull, Thoracic Cavity
	10.	Ribs, Sternum and Thoracic Vertebrae, Muscles of the Thorax
	11.	Pleura and Lungs ,Pericardium and Heart
	12.	Bones upper limb, muscles upper limb
	13.	Joints, Vessels and nerves
	14.	A brief description of Meanings, Brain and spinal cord, Thyroid and parathyroid glands
	15.	Cranial and Spinal nerves , Cervical Vertebra
	16.	Mediastinum & its contents ,Lymph nodes of Head and neck
	17.	Vessels, Nerves and Thoracic duct , Oesophagus
	18.	Diaphragm, Larynx and Trachea
	19.	Mammary Gland, Vessels and nerves of neck
	20.	Axilla and Cubital fossa , Muscles of the Neck
II	SAQ	7 must know, 1 desirable to know, 0Nice to know
	21.	A brief description of systems of the Body, General Embryology and Genetics, Brief description of Triangles of the Neck, A brief description of Meanings, Brain and spinal cord,
	22.	Anatomical position and related terminologies, Temporomandibular joint, Muscles of the Neck ,Cranial and Spinal nerves
	23.	Skin and its appendages, Oral Cavity, Gums, Teeth and Pharynx, Vessels and nerves of neck, Mediastinum & its contents

	24.	Superficial and deep Fasciae, Nose, nasal cavity and Paranasal sinuses, Larynx and Trachea, Vessels, Nerves and Thoracic duct
	25.	Tendon, Ligaments and Bursae, Ear, Oesophagus ,Diaphragm
	26.	Bones Types, functions and ossification, contents of Orbit,Eyelids ,Lymph nodes of Head and neck, Mammary Gland)
	27.	Muscles(Types and functions) Lacrimal apparatus and Eye ball, Cervical Vertebrae, Axilla and Cubital fossa)
	28.	Joints, Types and movements, Salivary glands, Thyroid and parathyroid gland, Vessels and nerves
III	LAQ	All must know, 0 desirable to know, 0 Nice to know
	29.	General description and views of Skull,Muscles of the Thorax, joints of upper limb
	30.	Thoracic cavity, Pleura and Lungs
	31.	(Ribs, Sternum and Thoracic Vertebrae, Pericardium and Heart
	32.	Bones of upper limb(scapula/humerus/radius/ulna, Muscles of upper limb

Question Paper blueprint Paper-II

A Question sr no	B Type of Question	C Question Paper Format
I	MCQ	15 must know, 3 desirable to know, 2 Nice to know
	1.	Cremaster and Pyramidalis muscle, Caecum and its applied anatomy, Transversus Abdominis and Rectus Abdominis muscle
	2.	Pelvis, perineum and Ischiorectal fossa, Colon and its applied anatomy ,Cremaster and Pyramidalis muscle
	3.	Sacrum and coccyx, Vessels Mesenteric Inferior and Superior, Arteries and nerves of the anterior abdominal wall
	4.	Muscles and joints of pelvis,Kidneys and its applied anatomy, Fascia Transversalis
	5.	Pelvic viscera and External Male/Female sex organs, Inferior Vena Cava,
	6.	Bones of Lower Limb, Fascia Transversalis
	7.	Muscles of Lower Limb, Inguinal region groin and Inguinal canal
	8.	Joints of lower limb , Ligaments of peritoneum
	9.	Vessels and nerves, Abdominal part of the Oesophagus and its applied anatomy
	10.	Fossae, Stomach and its applied anatomy
	11.	Femoral triangle, Ileum along with its applied anatomy
	12.	Adductor canal, Mesentery and Omentum, Peritoneum
	13.	Popliteal fossa, Abdominal part of the Oesophagus and its applied anatomy
	14.	Arteries and nerves of the anterior abdominal wall, Liver and its applied anatomy
	15.	Mesentery and Omentum, Peritoneum, Portal vein and its applied anatomy
	16.	Duodenum and its applied anatomy, Pancreas and its applied anatomy
	17.	Jejunum along with its applied anatomy, Appendix and its applied anatomy
	18.	Portal vein and its applied anatomy, External male and female genital organs and its applied anatomy
	19.	Extrahepatic Biliary Apparatus along with its applied anatomy, Suprarenal

		Glands and its applied anatomy
	20.	Spleen and its applied anatomy, Posterior Abdominal Wall
II	Short Answers	7 must know, 1 desirable to know, 0 Nice to know
	21.	Fascia Transversalis, Inguinal region groin and Inguinal canal, Arteries and nerves of the anterior abdominal wall
	22.	Muscles and joints of pelvis, peritoneum of Ligaments, Fascia Transversalis
	23.	Muscles of lower limb, Abdominal part of the Oesophagus and its applied anatomy, Appendix and its applied anatomy
	24.	Vessels and nerves of lower limb, Stomach and its applied anatomy, External male and female genital organs and its applied anatomy
	25.	Fossae of lower limb, Ileum along with its applied anatomy, Suprarenal Glands and its applied anatomy, Inguinal region groin and Inguinal canal
	26.	Femoral triangle, Liver and its applied anatomy, Posterior Abdominal Wall, Mesentery and Omentum, Peritoneum
	27.	Adductor canal, Portal vein and its applied anatomy, Abdominal Aorta
	28.	Popliteal fossa, Pancreas and its applied anatomy, Cremaster and Pyramidalis muscle
III	Long Answers	All must know, 0 desirable to know, 0 Nice to know
	29.	Cremaster and Pyramidalis muscle, Inguinal region groin and Inguinal canal, Jejunum along with its applied anatomy, Spleen and its applied anatomy, Kidneys and its applied anatomy
	30.	Pelvis, perineum and Ischiorectal fossa, Sacrum and coccyx, Pelvic viscera and External Male/Female sex organs, Caecum and its applied anatomy, Inferior Vena Cava
	31.	Bones of lower limb, Joints lower limb, Portal vein and its applied anatomy, Colon and its applied anatomy
	32.	Arteries and nerves of the anterior abdominal wall, Duodenum and its applied anatomy, Extrahepatic Biliary Apparatus along with its applied anatomy, superior and inferior Vessels Mesenteric

Check List for Assessment of Practicals

Sl no	Topic	Check list
1	Practical work book maintenance	-Timely submission -Draw and label neat diagrams -Answer the given questions in the work book
2	Small Project	-Innovative -Working model/non working model -Explanation/presentation of the project
3	Dissection	-Identify the different structures in a cadaver -Dissection skills such as application of

		incision,preservation etc
4	Clinical performance	-Inspection -Palpation -percussion -Ascultation -clinical application of applied aspects -X-ray reading

Tashree ul badan Paper 1

SHORT ANSWER QUESTIONS 8*5=40

Q1.Describe about the boundaries ,contents of anterior triangle of neck. (MK)

Q2.Describe origin ,course ,termination and branches of facial nerve .(MK)

Q3.Enumerate the various layers of structures of skin.(DK)

Q4.List the para nasal sinuses. (MK)

Q5.Write a note on ear ossicles .(MK)

Q6.Write about extra ocular muscles.(MK)

Q7.Describe the anatomy of cubital fossa.(MK)

Q8.Write a note on classification of joints.(MK)

3.LONG ANSWERS QUESTIONS 4*10=40

1. Describe the anatomy of Temporomandibular joint with articular parts,ligaments, movements ,blood supply and nerve supply.(MK)
2. Describe the anatomy of left lung with reference to boundaries ,surfaces, lobes,blood supply and nerve supply.(MK)
3. Describe the anatomy of sternum and its parts.(MK)
4. Describe the origin, insertion, nerve supply, and action of rotator cuff muscles.(MK)

Tashree ul badan paper 1

Multiple choice questions(MCQs)20*1=20

Q1.Which of these muscles divides the neck into Anterior and posterior triangle?(MK)

- a) Sternocleidomastoid muscle
- b) Sternohyoid muscle
- c) Sternothyroid muscle
- d) Digastric muscle

Q2.TMJ is a(MK)

- a) Fibrous joint
- b) Hinge joint
- c) Ball and socket joint
- d) Diarthroidal join

Q3.The number of point angles in permanent mandibular first molar is(NK)

- a) Four
- b) Six
- c) Eight
- d) Ten

Q4.The nasal septum (fasl e anaf) receives its nerve supply from(NK)

- a) Anterior ethmoidal nerve
- b) Posterior ethmoidal nerve
- c) Vagus nerve
- d) Pharyngeal nerve

Q5.The bands of tissue that help to hold bones ,joints and organs in place is(MK)

- a) Tendon
- b) Ligament
- c) Bursae/muscles
- d) Cartilages

Q6.Regarding eyelids (DK)

- a) Blinking of the eye is due to the contraction of the palpebral part of the orbicularis oculi
- b) Levator palpebrae superioris is the opponnent of the palpebral part of the orbicularis oculi
- c) Upper eyelid contains levator palpebrae superioris
- d) Superficial fascia in the eyelids has no adipose tissue

Q7.The thin membrane in the eye through which light enters is known as (DK)

- a) Iris
- b) Pupil
- c) Cornea
- d) Aqueous humor

Q8.The largest synovial joint in the body elbow is (MK)

- a) Hip
- b) Shoulder
- c) Elbow
- d) Knee

Subject:-Tashreehul Badan(Anatomy) Paper I

Q9.Skull cap is also known as (MK)

- a) Calaverus
- b) calvarium
- c) cranium
- d) shenoid

Q10.Breast bone is the (MK)

- a) sternum
- b) scapula
- c) true rib
- d) beauty bone

Q11.Which of the following Atrium receives oxygenated blood from the lungs through pulmonary veins(MK)

- a) left atrium
- b) right atrium
- c) both a&b
- d) none of them

Q12.Cleido cranial dysostosis is (MK)

- a) genetic condition humerus
- b) fracture of scapula
- c) congenital disorder of clavicle
- d) is the name of a muscle

Q13.Carple tunnel syndrome is due to compression of (DK)

- a) ulnar nerve
- b) radial nerve
- c) median nerve
- d) ulnar nerve

Q14.Which of the following is not a part of hind brain(MK)

- a) pons
- b) cerebellum
- c) cerebrum
- d) medulla oblongata

Q15. 10th cranial nerve is (MK)

- a) optic nerve
- b) vagus nerve
- c) accessory nerve
- d) facial nerve

Q16.....is a loop of nerves which are formed by 1st 3 cervical nerves (C1 to C3)(MK)

- a) Ansa cervicalis
- b) Cauda

Subject:-Tashreehul Badan(Anatomy) Paper I

- c) Cisterna chyli
- d) Ganglion

Q17.Azygous vein ends in (MK)

- a) Right atrium of heart
- b) Superior vena cava
- c) Inferior vena cava
- d) Left brachiocephalic vein

Q18.The diaphragm is supplied by (MK)

- a) Phrenic nerve
- b) Intercostal nerve
- c) Both a&b
- d) Splanchnic nerve

Q19.Common carotid artery divides at the level of (MK)

- a) Hyoid bone
- b) Cricoid cartilage
- c) Superior border of thyroid cartilage
- d) Inferior border of thyroid cartilage

Q20.Lateral boundary of cubital fossa is formed by which muscles (MK)

- a) Biceps brachi
- b) Brachioradialis
- c) Brachialis
- d) Extensor carpi radialis longus

MK-15

DK-03

NK-02

Tashree ul badan paper 2

Short answers 5*8=40

1. Explain boundaries , contents of inguinal canal.(MK)
2. List the names of the ligaments of hip joint.(MK)
3. Write down the names of muscles of medial compartment of the thigh with their origin, insertion , blood supply, nerve supply and action(DK)
4. Enumerate the structures forming stomach bed.(MK)
5. Write the boundaries , contents of popliteal fossa,(MK)

Subject:-Tashreehul Badan(Anatomy) Paper I

6. Write the boundaries and contents of femoral triangle (MK)
7. Write the boundaries and content of adductor canal (MK)
8. Describe the anatomy of pancreas with its applied anatomy.(MK)

Long answers 4*10=40

1. Describe the anatomy of spleen with its blood supply .(MK)
2. Explain the anatomy of male urethra with its blood supply and nerve supply.(MK)
3. Describe the anatomy of upper end of femur with its muscle attachment.(MK)
4. Explain the anatomy of duodenum with its relations.(MK)

Tashree ul badan Paper 2 MCQs

1. Following structures are related to caecum EXCEPT(MK)
 - a) Iliac and psoas fasciae
 - b) Femoral vessels
 - c) Femoral nerve
 - d) Retrocecal appendix
- 2.The medial wall of ischio-rectal fossa is formed by(MK)
 - a) Anal canal and levator ani
 - b) Obturator externus and ischiopubic rami
 - c) Sacrotuberous ligament and gluteus maximus
 - d) Union of anterior and posterior walls
- 3.The following structure is attached to the sacrum(DK)
 - a) Lateral limb of sigmoid mesocolon
 - b) Piriformis
 - c) Gluteus medius
 - d) Obturator internus
- 4.The most lateral muscle of pelvic diaphragm is (MK)
 - a) Coccygeus
 - b) Levator ani
 - c) Pubococcygeus
 - d) Iliococcygeus
- 5.The testis are covered by a dense white fibrous capsule called the (NK)
 - a) Scrotum

Subject:-Tashreehul Badan(Anatomy) Paper I

- b) Tunica vaginalis
- c) Tunica albuginea
- d) Visceral peritoneum

6.The rectus abdominus, external oblique , internal oblique,and transverse abdominis all have one function in common , what is it?(DK)

- a) All are classified architecturally as parallel muscles
- b) All are on the posterior surface of the abdomen
- c) They are the only muscles never to under go tetanus
- d) All function to compress abdomen

7.Deep inguinal ring is an opening found in the (MK)

- a) Aponeurosis of external oblique muscle
- b) Aponeurosis of internal oblique muscle
- c) Transversalis fascia
- d) Aponeurosis of transversus abdominis

8.The arterial supply of the hip joint is by (MK)

- a) Superficial circumflex iliac artery
- b) Ascending branch of first perforating artery
- c) Obturator artery
- d) Ascending branch of second perforating artery

9.The oesophageal hiatus is in the (MK)

- a) Oesophagus
- b) Mesentery
- c) Diaphragm
- d) Cardiac end of the stomach

10.The following arteries supplies the stomach EXCEPT(MK)

- a) Short gastric artery
- b) Superior mesenteric
- c) Right gastric
- d) Right and left gastroepiploic

11.Which of the following does not form boundary of femoral triangle (MK)

- a) Inguinal ligament
- b) Medial border of adductor longus
- c) Lateral border of adductor longus
- d) Medial border of sartorius

12.Regarding superior mesenteric artery (MK)

- a) It is the artery of midgut
- b) Its pressure on the left renal vein may produce varicocele

Subject:-Tashreehul Badan(Anatomy) Paper I

- c) It ends on ileocaecal junction
- d) Its pressure on the duodenum may give symptoms of duodenal ileus

13.Concerning inguinal canal (MK)

- a) It extends from the deep inguinal ring to the superficial inguinal ring
- b) Deep inguinal ring is a gap in the fascia transversalis
- c) Direct inguinal ring passes through the deep ring lateral to inferior epigastric artery
- d) Indirect inguinal hernia protrude through the triangle of hasselback

14.Regarding the inguinal ligament (MK)

- a) The peyer's patches are larger and numerous
- b) Plicae circularis are larger and closely set in the distal part of the ileum
- c) Its walls are thinner and less vascular
- d) Intestinal villi are smaller and fewer

15.Regarding greater omentum (MK)

- a) It is large vascular double fold of peritoneum
- b) Its left border is continuous with gastrophrenic ligament
- c) Between the anterior two layers right and left gastroepiploic vessels anastomose
- d) It contains dense, visible accumulation of fixed macrophages called as peyer's patches

16.Concerning pancreas (MK)

- a) Carcinoma of the head of pancreas may press the portal vein causing ascites
- b) Accessory pancreatic tissue may exist in the wall of duodenum, jejunum and ileum
- c) Lobar ducts from the tail and body join the duct of Wirsung as the herring bone pattern
- d) Duct of Santorini drains the lower part of head and uncinate process and opens in the duodenum at the major duodenal papilla

17.Concerning caecum and appendix(MK)

- a) Appendix is frequently found in the retrocaecal recess
- b) Sometimes the caecum is mobile and can herniate through the right inguinal canal
- c) The lies above the lateral half of the inguinal ligament
- d) In appendicitis , pain is first felt at the periumbilical region because it is a hindgut derivative

18.Concerning bile duct and portal vein (MK)

- a) The ampulla and ends of bile and pancreatic ducts are surrounded by sphincter of Oddi
- b) Paraduodenal part of the bile duct may be compressed by the neoplasm of the head of pancreas leading to obstructive jaundice
- c) It is believed that the mesenteric blood passes to the right lobe of the liver and splenic blood
- d) Portal vein does not contain valves

19.The following peritoneal folds are found behind the anterior abdominal wall EXCEPT(MK)

- a) Falciform ligament
- b) Lateral umbilical ligament

Subject:-Tashreehul Badan(Anatomy) Paper I

- c) Fold of Douglas
- d) Median umbilical fold

20.Largest branch of lumbar plexus (MK)

- a) Femoral nerve
- b) Obturator nerve
- c) Genitofemoral nerve
- d) Ilioinguinal nerve ss

Practical I:- Anatomy law, Prosection and dissections (Non lecture 60 hours)

Sl no	Skills	Duration	Learning methods
1	Describe Anatomy Law, Preservation of Cadaver, Bodyparts and Specimen.	5	Tutorial+ Demonstration+Video clips
2	Describe Line of dissection Dissection technique	5	Tutorial+ Demonstration+Video clips
3	Identify different layers of body	10	Tutorial+ Demonstration+Video clips
4	Perform Dissections of the parts of the body (Cadaver, Audio -Visual aids or other techniques available e.g., CD's, Software or other advanced technology	35	Tutorial+ Demonstration+Video clips
5	Observe Prosection of the parts of the body	5	Tutorial+ Demonstration+Video clips

Practical II:- Osteology and Arthrology (Non lecture 100 hours)

Sl no	Skills	Duration	Learning methods
1	Describe Bones and Joints of Neurocranium	5	Tutorial+ Demonstration
2	Describe Bones and Joints of Viscerocranium	5	Tutorial+ Demonstration
3	Enumerate Bones and Joints of Thoracic	15	Tutorial+ Demonstration
4	Describe Bones and Joints of Upper limb	15	Tutorial+ Demonstration
5	Enlist Bones and Joints of Pelvis	15	Tutorial+ Demonstration
6	Describe Bones and Joints of Lower limb	15	Tutorial+ Demonstration
7	Describe Associated Radiological Anatomy of all regions	15	Tutorial+ Demonstration
8	Explain Vertebral column and associated Joints (General characteristics of	15	Tutorial+ Demonstration

Subject:-Tashreehul Badan(Anatomy) Paper I

	Vertebral column and allvertebra individually)		
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Practical III:-Study of Viscera (Non lecture 100 hours)

Sl no	Skills	Duration	Learning methods
1	Describe Brain & Spinal cord with the help of models, charts and specimens	15	Tutorial+ Demonstration
2	Describe Viscera and glands of neck with the help of models, charts and specimens	15	Tutorial+ Demonstration
3	Describe Lungs, Heart and all viscera of thorax with the help of models, charts and specimens	20	Tutorial+ Demonstration
4	Describe Liver, spleen, stomach, kidney and all other Abdominal viscera with the help of models, charts and specimens.	20	Tutorial+ Demonstration
5	Describe all Pelvic Viscera with the help of models, charts and specimens	20	Tutorial+ Demonstration
6	Describe Cubital Fossa and structures of Upper limb with the help of models, charts and specimens	5	Tutorial+ Demonstration
7	Describe Popliteal fossa and structures of Lower limb with the help of models, charts and specimens	5	Tutorial+ Demonstration

Practical IV:- Study of Anatomy on living subject(Patient) (Non lecture 20 hours)

Sl no	Skills	Duration	Learning methods
1	Describe and Identify Pulsations	4	Tutorial+ Demonstration
2	Describe Counting of Ribs	3	Tutorial+ Demonstration
3	Describe Heart sounds	4	Tutorial+ Demonstration
4	Identify of different bony landmarks	3	Tutorial+ Demonstration
5	Explain Deep tendon reflexes -Biceps -Brachioradialis -Triceps -Patellar -Ankle	3	Tutorial+ Demonstration
6	Explain Superficial reflexes -Plantar response -Abdominal reflex -Cremastic reflex - Corneal reflex	3	Tutorial+ Demonstration

ರಾಜೀವ್ ಗಾಂಧಿ ಆರೋಗ್ಯ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಕರ್ನಾಟಕ

Rajiv Gandhi University of Health Sciences, Karnataka



MANAFEUL AZA

SUBJECT CODE: UNIUG MZ

HUMAN PHYSIOLOGY

COURSE CURRICULUM FOR FIRST PROFESSIONAL BUMS

PRESCRIBED BY NCISM

I professional BUMS

Subject Code: UNIUG-MZ

Manafeul Aza

KEY POINTS

Total number of Teaching hours: 600			
Lecture hours (LH) - Theory		200 Hours	200 Hours (LH)
Paper I	97 Hours		
Paper II	103 Hours		
Non-Lecture hours (NLH) – Theory		120 Hours	400 Hours (NLH)
Paper I	58 Hours		
Paper II	62 Hours		
Non-Lecture hours (NLH) - Practical		280 Hours	

Examination (Papers & Mark Distribution)					
Item	Theory Component Marks	Practical Component Marks			
		Practical	Viva	Elective	IA
Paper I	100	100	20	10	20
Paper II	100				
Sub-Total	200	150			
Total marks	350				

Preface

In Unani Medicine, seven factors called Umoore Tabiya, are considered essentials for the existence of human beings. Among these factors Afa'al (functions) of the body are placed at the seventh and last position indicating the functions of the body as the pinnacle of the biological existence of human beings. In the subject Manafeul Aza we study the functions of human body, from the point of view of both Unani and modern understanding. Knowing how the body works at the cellular level, organ level and as a whole? including the physical and chemical processes involved is the main domain of Manafeul Aza. Study of Manafeul Aza also includes the understanding of how body maintains a constant state of its internal environment (homeostasis) and how different organ systems play a role to maintain it. Knowing how an interchange between static and dynamic conditions take place and how after a brief change body gets back to a new steady state is a key area of Manafeul Aza. Another area of Manafeul Aza is the study of various control system of the body and how they regulate various functions. In this subject the students will study various topics like Homeostasis, Action Potential, Membrane transport, Muscle physiology and acid base balance. Various body systems which students will study are Haemopoietic system, Cardiovascular system, Digestive system, Respiratory system, Nervous system, Excretory system and endocrine system.

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First BUMS Course code and Names of Course

	Course code	Name of Course
	UNIUG-MZ	Manafeul Aza (Human Physiology)

Table 1- Course outcomes and matched Program outcomes.

SR1 CO No	A1 Course Outcome (CO) UNIUG-MZ At the end of the course UNIUG-MZ, the student should be able to-	B1 Course Outcome matched with program outcomes.
1	Define <i>Al-istitbab</i> (homeostasis) and <i>Tabiat</i> and explain how homeostatic mechanisms normally maintain a constant interior milieu at organ, tissue and cellular level including the chemical and physical processes involved	PO1, PO2

2	State the <i>Nizame Aza</i> (organ system of the body), explain the mechanisms by which each <i>Uzu works</i> , and relate the functions and the <i>Tashreeh (anatomy)</i> and <i>Nusujiyyat (histology)</i> of each organ system.	PO1, PO2
3	Understand and demonstrate the interrelations of the <i>Nizam-e –Aza</i> to each other.	PO1, PO2
4	Predict and explain the integrated responses of the organ systems of the body to <i>Tabayi ijahad (physiological stress)</i> and <i>Ghairtabayi ijhad (pathological stresses)</i> .	PO2
5	Explain the <i>Mahiyatul marzi</i> (patho-physiology) of common diseases related to the organ systems of the body.	PO2
6	Measure and compare normal and abnormal values for a variety of <i>Wasait-e-tabayi (physiological parameter)</i> obtained through experiments	PO1, PO2, PO4
7	Utilize Data from experimental studies to explain the <i>Tabyi Usool</i> of body systems	PO1, PO2, PO8
8	Use <i>Manafeul Azayi istilahat</i> (physiological terminology) to comprehend and communicate information on body function (lab Reports)	PO2, PO5
9	Conduct experiments which illustrate chemical and physical concepts including <i>Paimaish zaqtud dam qavi</i> (blood pressure measurement), <i>Paimaish ahjam-e-aljihaz altanafusi</i> (measurement of respiratory volumes), <i>Tajziya-e- baul (urine analysis)</i> , and <i>Tajziya-e-dam (Blood examination)</i> .	PO2, PO4

Table 2: Contents of **Manafeul Aza - Paper – I (Theory)**

	A2 List of Topics UNIUG-MZ	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours
1	Umoomi Manafeul Aza (General physiology)	I	10	9	05
	(a) Al-istitbab (Homeostasis) الانتقاب				
	(b) Transport across cell membrane نقل بين الخش الخ لحي				
	(c) Action potential جهد ع ل				
	(d) Muscle physiology فع ليات الاعضاء				
	(e) Macromolecules جزئى كبرى وى سال ماتكبرى				
	(f) Protein synthesis بروتين لحي				
	(g) Acid-base balance تواز نال ح م لى ق ل وى				

	(h) Water balance	التوازن الماء				
2	Study of Khulia and Insaja (Cytology and Histology)		I	15	9	06
	(a) Qhulia ki khurd beeni sakht-o-Afaal, (Brief discussion and introduction of cytology)	مخلیہ کی خورپھینی ساخت و افعال				
	(b) Tareef –e- insaja (definition)	تعریف انساجہ				
	(c) Aqsaam –e- insaja (types)	اقسام انساجہ				
	(d) Insaja ki Khurd beeni sakht ka phailao-wa-afaal, (distribution and function of tissues),	نسل جہ کی خورپھینی ساخت تکلیف حال و افعال				
	(e) Nassej-e-bushra (epithelial tissue)	نسیج پشری				
	(f) Naseej-e-waasil (connective tissue),	نسیج واصل				
	(g) Nassj-e-azlee (muscular tissue)	نسیج عضل				
	(h) Naseeje asabi (nervous tissue).	نسیج عصبی				
3	Khoon wa Nizam-e-Damwi (Blood & Haemopoietic System)	خون و نظام دموی	II	30	30	15
	(a) Khoon ki tareef (definition of blood), Ajza (constituents), Afaal (functions), Lazoojat aur hajam (viscosity and volume).	خون کی تعریف، اجزاء، افعال، لزوجت اور حجم				
	(b) Maiyat-ud-dum (blood plasma): Ajza (constituents), Mavaad-e-lahmiya, aur afaal (plasma proteins and their functions)	ماتہ دم اجزاء، موٹل جہہ اور انکے افعال				
	(c) Kurriyat-e-hamra (RBC): Saqht, ajza-e-tarkeebi (structure, composition), Paidaiash (formation), Numu (development), aur Anjam (fate), Majmooyee taadaat (total count), Miqdaar ki					

	takhmeen ke tareeqe (methods of estimation), Aur unke feliyati iqhtilaaf (& their physiological variations) ،	کریات حمرات ساخت، اجزائی ترکیبی، پیفیشنز اور انجام، مجموعیت عدد، قیاس کییت خہن کے طریقے اور کلیے فعلییتی اخالف				
	(d) Hamratuddam (haemoglobin) ke Ajza-etarkeebee (composition), Aqsaam (varieties), Khwaas (properties), Miqdaar ki takhmeen ke tareeqe (method of estimation), Aur afaal (and functions)	حمرات دم کے اجزائی ترکیبی اقسام، خصوصیات قیاس، خوں کے افعال اور افعال				

	(d) Azla-e-qalb ki khusoosiyat (properties of cardiac muscles) عجز قلب کی خصوصیات				
	(e) Daura-e-qalbi (cardiac cycle) دوق قلبی				
	(f) Aswaat-e-qalb (heart sounds) لہجہ و آواز قلب				
	(g) Suqoot-e-qalb (heart block) سقوت قلب				
	(h) Aasaab-e-qalb (nerves of the heart), اعصاب قلب				
	(i) Mrakaz-e-qalb aur iske afaal (cardiac centre & its function) مرکز قلب اور اس کے افعال				
	(j) Barqi qalb nigari (electro-cardiograph) برق قلب نگاری				
	(k) Fisharruddum aur iske feliyati avamil (blood pressure and its physiological control) فشارِ رگ اور اس کے فیزیولوجی کے عوامل				
6	Hayateen (Vitamins) حیثین	II	10	6	04
	(a) Hayateen ki tareef (definition) تعریف کی تعریف				
	(b) Aqsaam (types) اقسام				
	(c) Miqdar khurak (daily requirement) مقدار خوراک				
	(d) Afaal (functions) افعال				
7	Istehala (Metabolism) سات حلہ	III	10	17	11
	(a) Istehala ki tareef (introduction to metabolism) سات حلہ کی تعریف				
	(b) Nashasta ka istehala (metabolism of carbohydrate) نشہ کی سات حلہ				
	(c) Shamiyat ka istehala (metabolism of lipids) شحم کی سات حلہ				
	(d) Humooz-e-shorain ka istehala (metabolism of amino acids) شحم و آمینو اسید کی سات حلہ				
	(e) Madaniyat aur paani ka istehala (mineral and water metabolism). معدنیات اور پانی کی سات حلہ				
Total				97	58

Table 2: Contents of Manafeul Aza - Paper – II (Theory)

	A2 List of Topics UNIUG-MZ	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours
1.	Nizam-e-Hazm (Digestive system) نظام ہضم	I	15	17	07

	(a) Tamheed-e-nizam-e-hazm (introduction of digestive system) تہی بن نظام ہضم				
	(b) Khurd beeni sakht of ghudood-e-luabiya (histological structure of salivary glands), luabedahan ki tarkeeb (composition of saliva) غودلیعی کی خورہینی ساخت لعا بدھن کی ترکیب				
	(c) Tarssho aur afaal (secretion of saliva and functions) لعا بن کنٹر شرح اور افعال				
	(d) Rutubat-e-maaddi (gastric juice) رطبات معدی				
	(e) Rutubat-e-mayvi, aur rutubat-e-safravi ki tarkeeb, tarassho aur afaal (composition of succus entericus and bile secretion and their functions) رطبات معوی اور رطبات تصفر اوی کی ترکیب و شرح افعال				
	(f) Majra-e-ghizai ke harkat aur unke afaal (movements of alimentary canal and their functions) مجرئی غئی کی حرکات اور انکے افعال				
	(g) Fuzla ki paidaish-o-iqhraj (formation of faeces and defecation) فطیہ کپی داش و اخراج				
	(h) Jigar ki saaqht-o-afaal, (structure and functions of liver) گج کی ساخت و افعال				
	(i) hazm-e-nishashta (digestion of carbohydrate), هضم نشاستہ				
	(j) hazm-e- shorain (digestion of protein) هضم شورین				
	(k) andhazm-e-shaham (digestion of lipids) هضم شحم				
	(l) paani ka injezab (absorption of water) پانی کال جذب				
2.	Nizam-e-Tanaffus (Respiratory system) نظام تنفس	I	15	16	11
	(a) Mukhtalif tanaffussi aaza ki tamheed (introduction of respiratory system/organs) مختلف تنفسی اجزا کی تہی				
	(b) Aaza –i- tanaffys ki Khurd beeni sakht (histological structure) اجزا بن تنفسی کی خورہینی ساخت				

	(c) Uzlaat-e-tanaffuss aur unke afaal (respiratory muscles & functions of respiratory system/organs) ع ال تنفس اور لک افعال				
	(d) Oxygen aur carbon di oxide ki muntaqeeli (transport of oxygen & carbon dioxide) لکسی جن اور کابن ڈائی آکسائیڈ کی منتقلی				
	(e) Riya aur insaja may gason ka tabadila (gaseous exchange in lungs and tissues) ریہ اور انساجہ میں گیسوں کا تبادلہ				
	(f) Tanaffuss ke marakiz (centers of respiration) تنفس کے مرکز				
	(g) Masnooi tanaffuss aur inke mukhtalif tareeqe (artificial respiration and its methods) مصنوعی تنفس اور ان کے مختلف طریقے				
	(h) Jasamat-e-reviya (pulmonary volume) جسمات ریہی				
	(i) Waqaat-e-reviya (pulmonary capacities) وقعات ریہی				
	(j) Usre tanaffuss (dyspnoea) عس رتنفس				
	(k) Qillat-e-baad (anoxia) قل تباد				
	(l) Dushwaar-e-tanaffuss (apnoea) دشوار تنفس				
	(m) Izdiyad-e-tanaffuss (hypercapnia) ازدی تنفس				
	(n) Sat-he-martafa aur gehre paani ke feliyati asraat (physiological effect of high altitude & under water) سطح مرتفع اور گہرے پانی کے فیزیکی اثرات				
3.	Nizam-e-Ikhranj (Excretory system) نظام اخراج	II	15	14	11
	(a) Kulliyya ki saqht-o-afaal (Structure and function of kidney) کلیہ کی ساخت و افعال				
	(b) Aljihazul mujawiru ilkubaiba (juxta-glomerular apparatus and renin- angiotensin system) لاجہ ازالہ ج لور لہ لکھیہ اور نظام خون و لکسی جن				
	(c) Paidaish-e- bowl, tarkeeb-e-bowl, aur miqhdar-e-bowl (urine formation, quantity & concentration of urine) پی نڈا شربول متکی ببول اور مقدار ببول				
	(d) Renal regulation of fluid and electrolytes and acid-base balance				
	(e) iqhranj-i- bowl aur iska mechania (micturition and its mechanism) اخراج ببول اور اس کا مکانیسم				
	(f) masana aur uske su-e- afaal (urinary bladder				

	انہ کے (and its abnormalities) اور اس کی خرابیاں				
	(g) Artificial kidney, dialysis and renal transplantation مزنوعی کلیہ، ڈیالیس اور رزوع الکلیہ				
	(h) Renal function تیسٹس اور وظیفۃ الکلیہ				
	(i) Unani concepts of idrar-e-bowl ادریبول کلیہ کی طبی قہوم				
4.	Nizam-e-jild (Integumentary system) نظام الجلد	II	10	04	02
	(a) Jild ki sakht aur afaal (structure and functions of skin) [integument], لجلیہ کی ساخت و افعال				
	(b) Paseena (sweat) پسینہ				
	(c) Hararat-e-badaniya ka tavazun, (regulation of body temperature) حرارت بیدنیہ کی توازن				
	(d) Ghair tabiyyee hararat aur qillate-hararat (abnormal and sub-normal temperature). غیر طبیعی حرارت قلت حرارت				
5.	Nizam-e-Aasab (Nervous system) نظام اعصاب	II	15	19	11
	i. Organization of nizam-e-aasab (nervous system) تنظیمی منظام اعصاب				
	ii. Naseej-e- asabi (neural tissue) نسیج عصبی				
	iii. Leef-e- asabi (Nerve fibers) لہف عصبی				
	iv. Mashbak/ittisal (synapse) مٹھال/مٹھال				
	v. Asabi mursalat (neurotransmitters) عصبی رسالت				
	vi. Markazi nizam-e- asab (Central nervous system) مرکزی منظام اعصاب				
	vii. Assabeel-o shabkiya hissi (Sensory pathways and tracts) السیولوشکیہ حسیہ				
	viii. Nizam-e-harkiyah (Motor system) نظام حرکتی				
	ix. Alfaiur-rudood (Reflexes) الفعال ردود				
	x. Muqheeqh uqda-e qaidiyyah (Cerebellum & basal ganglia) مخخ او عقدہ قیدیہ				
	xi. Nizame asabi la iradi (Autonomic nervous system) الجلع عصبی لال ارادی				
	xii. nuqha (Spinal cord) نخاع				
	xiii. maseerutus sailunuqhay (Cerebero-spinal fluid) مہی ریل سائل نخاعی				
	xiv. Al naum (Physiology of sleep) النوم				

xv.	Waj-o- alam (Physiology of pain) وجع و الام				
xvi.	EEG & nerve tests				

xvii.	Unani concept of quwwat-e-nafsaniyyah قوت فنسنلی				
xviii.	Quwwat-e zaiqah wa shammah (the taste and smell sensation) قوت ذائقہ و شامہ				
xix.	Uzn (Ear) اذن				
xx.	Ghisha-e tabli aur azeematusameiyyah (Tympanic membrane and the ossicular system) غشاء طبلی اور عظمی مانٹل سیمی				
xxi.	Cochlea قوقلی				
xxii.	Saut (Sound) صوت				
xxiii.	Mechania-e quwwat-e-saut-e-markazi (Central auditory mechanisms) مکیلیہ قوت صوت مرکزی				
xxiv.	Hearing test				
xxv.	Eye عی				
xxvi.	Ratubat-e- ain (Fluid system of the eye) رطوبات عین				
xxvii.	Photochemistry of vision الیہاء لضوی اقلریة				
xxviii.	Ruyiyat ka mechania (Physiology of vision) ریت کا مکیلیہ				
xxix.	Harkat-e-ain (Eye movements) حرکات عی				
6.	Nizam-e-ghudood la qanatiyah (Endocrine system)	III	15	19	10
	(a) Ghudood-e-la qanatiyah (endocrine gland) غودولاقتلی				
	(b) Tanzeem-e-afraz rasilat (regulation of hormones) تنظیم افراز رسالت				
	(c) Rasilat ka mekaniya-i- amal (Mechanism of action of hormones) رسالت کا مکیلیہ عمل				
	(d) Rasilat aur istihala-e- kailshium (Hormones and calcium metabolism) رسالت اور رسالت حل کیوشیمی				
	(e) Taht-us-sarir (hypothalamus) تحت الساریر				
	(f) Ghudda nukhamiyah (pituitary gland) غددین خاھیہ				
	(g) Rasila-e-namu (growth hormone) رسولین نمو				
	(h) Ghudda-e-nukhmiya muaqqhar (posterior pituitary) غددین نخمیہ مؤخر				
	(i) Ghudda-e-darqiyyah (thyroid gland) غددرقیہ				
	(j) Ghudda-e- kazriyyah (adrenal glands) غددکزیہ				
	(k) Banqiras (pancreas): بلاقیراس				

	(l) Ghudda sa'atariyyah (thymus) and ghudda-esanobariyyah (pineal gland): غده صغریہ اور غده صنوبریہ				
	(m) Thyroid function tests				
	(n) Endocrine consequences and metabolism				
7.	Nizam-e-tauleed (Reproductive system)	III	15	14	10
	(a) Sex differentiation & determination				
	(b) Bulooqhat (puberty): بلوغت				
	(c) Nizam-e-tauleed mardana (male reproductive system) نظم تولید مردانہ				
	(d) Rasila-e-khusya (testosterone) رسولہ خصیہ				
	(e) Ghudda-e-madhi(prostate) غده مذی				
	(f) Nizame tawleed zanana(female reproductive system) نظم تولید زنانہ				
	(g) Rasila muwallid-i- bayda (oestrogen) and rasila mu'in al-haml (progesterone): رسولہ لہود بیحدہ و رسولہ معین حمل				
	(h) Hamal (pregnancy), wiladat (parturition) & ilban / amal-e-raza'at (lactation) و حمل، الدت و عمل رضاعت				
	(i) Iyas (menopause) طاس				
	(j) Unani concepts of quwwat-e-tanasulliya قوت نلتول یکطلبی فہوم				
Total				103	62

Table 2: Contents of Manafeul Aza (Practical)

	A2 List of Topics UNIUG-MZ	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours
1	General physiology	I	18		76
	Stethoscope				
	Microscope				
	Body Temperature				
2	Respiratory System	I	12		20
	Respiratory sounds				
	Lung volume/ capacities				
3	Digestive System	I	10		12
	BMI				
	Bowel sounds				
4	Haematology	II	16		70
	Types of blood samples				
	Blood Plasma				

	Serum				
	Blood cells				
	Erythrocytes				
	Leucocytes				
	Haemoglobin				
	Blood groups				
	Blood Indices				
5	Urology	II	14		36
	Physical examination of urine				
	Microscopic examination of urine				
	Chemical examination of urine				
6	Cardio vascular system	III	14		32
	Radial pulse				
	Blood Pressure				
	ECG				
	Heart sounds				
7	Nervous System	III	8		20
	EEG				
	NCT				
8	Special Senses	III	8		14
	Perimetry				
	Visual acuity				
	Colour vision				
	Conduction of sound				
Total					280

Table 3: Learning objectives of Manafeul Aza UNIUG-MZ - Paper – I (Theory)

A3 Course outcome	B3 Learning Objective (At the end of the session, the Students should be able to)	C3 Domain/Su b	D3 Must to know/desira ble to know/Nice to know	E3 Level Does/shows / Knows how/ Knows	F3 T-L method	G3 Assessment	H3 Formative /summative	I3 Term	J3 Integrat ion
Topic 1- Umoomi Manafeul Aza (general physiology) (Lecture:- 09 hours, Non lecture 05hour)									
CO1	Define Manafeul Aza	Cognitive/R ecall	MK	K	Lecture	Written/ viva- voce	F & S	I	
CO1	Explain Homeostasis and its significance	Cognitive/R ecall	MK	KH	Lecture / Small group discussion	Written/ Open Book Test,	F & S		
CO2, CO3	Describe transport across cell membrane	Cognitive/R ecall	MK	KH	Lecture/ Educational videos	Written/ viva- voce	F & S	I	
CO2, CO3	Explain Action potential	Cognitive/R ecall	MK	KH	Lecture	Written/ viva- voce	F & S	I	
CO2, CO3	Describe muscle physiology	Cognitive/R ecall	MK	KH	Lecture/symposium	Written/ viva- voce	F & S	I	
CO2, CO3	Describe structure and biochemistry of macromolecules	Cognitive/R ecall	MK	K	Lecture	Written/ viva- voce	F & S	I	
CO2, CO3	Explain protein synthesis	Cognitive/R ecall	MK	K	Lecture/ Tutorials	Written/ viva- voce	F & S	I	

CO2, CO3, CO4	Describe Acid-base balance	Cognitive/Recall	MK	K	Lecture/ Small group discussion/ PBL	Written/ viva-voce	F & S	I	
CO2, CO3, CO4	Describe water balance	Cognitive/Recall	MK	K	Lecture/ Small group discussion	Written/ Project Work	F & S	I	
Topic 2- Study of Khulia and Insaja (Cytology and Histology) (Lecture:- 09 hours, Non lecture 06hours)									
CO2	Explain cytology and histology	Cognitive/Recall	MK	K	Lecture	Written	F & S	I	
CO2	Explains in detail about the structure and functions of the Khulia (cell)	Cognitive/Recall	MK	K	Lecture/ symposium	Written	F & S	I	
CO2	Describes the Taqseem-e-Khulia (cell division)	Cognitive/Recall	MK	KH	Lecture/discussion/ symposium	Written	F & S	I	
CO2, CO5	Gene mutations, Chromosomal aberrations	Cognitive/Recall	MK	KH	Lecture/discussion/ symposium	Written	F & S	I	
CO2	Define and classify the cell junctions	Cognitive/Recall	NK	K	Lecture/symposium	Written /viva voce	F	I	
CO1, CO2	Explain about the cell death	Cognitive/comprehensions	DK	KH	Lecture/discussion	Written/viva Voce	F & S	I	
CO2	Define and classify the Insaja	Cognitive/Recall	MK	K	Lecture	Written	F & S	I	

CO2	Describe the structure and functions of Naseej-	Cognitive/comprehensions	MK	K	Lecture/ symposium	Written	F & S	I	
	e-Bashri (Epithelial tissues)	ions							
CO2	Describe the structure and functions of Naseeje-Wasil (connective tissues)	Cognitive/comprehensions	MK	K	Lecture/ symposium	Written	F & S	I	
CO2	Describe the structure and functions of Naseeje-Azli (muscle tissues)	Cognitive/comprehensions	MK	K	Lecture/ symposium	Written	F & S	I	
CO2	Describe the structure and functions of Naseeje-Asbi (nervous tissues)	Cognitive/comprehensions	MK	K	Lecture/ symposium	Written	F & S	I	
Topic 3-Khoon wa Nizam-i-Damwi (Blood & Haemopoetic System) (Lecture:- 30 hours, Non lecture 15hours)									
CO2	Define the Khoon and explain its properties, compositions and functions	Cognitive/ Recall	MK	K	Lecture	Written	F & S	II	
CO2	Describe the Sayyal-eDamwi Lahmi (plasma proteins)	Cognitive/comprehensions	MK	K	Lecture/symposium	Viva voce	F & S	II	

CO2	Differentiate between plasma and serum	Cognitive/comprehensions	MK	KH	Group discussion	Written/Viva voce	F&S	II	
CO2	Describe the structure and morphology of	Cognitive/comprehensions	MK	K	Lecture/discussion	Written/ Viva voce	F & S	II	

	Kurriyat-i-Hamra (RBCs)	nsions							
CO2	Explain the properties of Kurriyat-i-Hamra	Cognitive/comprehensions	MK	K	Lecture/symposium	Written/ Viva voce	F & S	II	
CO2	Define and Describe the synthesis of Kurriyat-i-Hamra (Erythropoiesis)	Cognitive/ Recall	MK	K	Lecture/symposium	Written/ Viva voce	F & S	II	
CO2	Describe the site for Erythropoiesis in foetus and adult	Cognitive/comprehensions	DK	K	Educational video /Lecture/discussion	Written/ Viva voce	F & S	II	
CO2, CO4	Enumerate the factors necessary for Erythropoiesis	Cognitive/ Recall	MK	K	Lecture/discussion	Viva voce	F & S	II	
CO2, CO4	Describe regulation of Erythropoiesis	Cognitive/comprehensions	MK	KH	Lecture/discussion	Viva voce	F & S	II	
CO2	Explain the lifespan and the fate of Kurriyat-i-Hamra	Cognitive/comprehensions	MK	K	Lecture/PBL	Written/ Viva voce	F & S	II	

CO2	Describes the functions of Kurriyat-iHamra	Cognitive/comprehensions	MK	K	Lecture/	Written/ Viva	F & S	II	
CO1, CO2, CO5	Explain the physiological & pathological variations in number of RBCs	Cognitive/comprehensions	MK	Kh	Lecture/PBL	Written/ Viva	F & S	II	

CO2, CO3	Define and classify the Faqrud-Dum (anaemia)	Cognitive/Recall	MK	K	Lecture/symposium	Written/ Viva	F & S	II	
CO1, CO2	Explain the morphological variations of RBCs	Cognitive/comprehensions	MK	Kh	Lecture	Written/ Viva	F & S	II	
CO4	Explain the Applied physiology of ESR	Cognitive/comprehensions	MK	Kh	Small group discussion	Written/ Viva	F & S	II	
CO4	Explain the applied physiology of packed cell volume	Cognitive	MK	K	Small group discussion	Written/ Viva	F & S	II	
CO4,	Define and explain in detail about the blood indices	Cognitive	NK	K	Small group discussion	Written/ Viva	F & S	II	
CO2	Explain the structure & functions of Hamratud-Dum (Haemoglobin)	Cognitive/Recall	MK	K	Lecture/concept map	Written/ Viva	F & S	II	
CO2	Describe the synthesis of Hamratud-Dum	Cognitive/Recall	MK	K	Video clip /Lecture	Written/ Viva	F & S	II	

CO2, CO3	Fate/destruction of Hamratud-Dum	Cognitive/ Recall	MK	K	Lecture	Written/ Viva	F & S	II	
CO2	Explain the types of Hamratud-Dum	Cognitive/ Recall	MK	K	Lecture	Written/ Viva	F & S	II	
CO5	Explain the disorders related to HamratudDum	Cognitive/ comprehe nsions	DK	Kh	PBL/discussion	Written/ Viva	F & S	II	
CO2	Define & classify the Kurriyat-e-Baiza (white	Cognitive/	MK	K	Lecture	Written/ Viva	F & S	II	

	blood cells)	Recall							
CO2	Explain the morphology of Kurriyat-e-Baiza	Cognitive/ comprehe nsions	MK	Kh	Concept map/Lecture	Written	F & S	II	
CO2	Describe the formation of Kurriyat-e-Baiza (leucopoiesis)	Cognitive/ comprehe nsions	DK	Kh	Lecture	Written	F & S	II	
CO6, CO8	Describe the normal values of total leucocytes count and differential leucocytes count	Cognitive/ comprehe nsions	MK	Kh	Symposium	Written/ Viva	F & S	II	
CO2	Describe the properties & functions of Kurriyat-e-Baiza	Cognitive/ Recall	MK	K	Lecture/symposium	Written/ Viva	F & S	II	

CO2, CO4, CO5	Explain the physiological & pathological variations of Kurriyat-e-Baiza	Cognitive/ Recall	MK	K	Lecture	Written/ Viva	F & S	II	
CO6, CO9	Explain and demonstrate Sahli's hemoglobinometer	Cognitive/ comprehensions	MK	S	Lecture/ Demonstration/ practical	Viva	F & S	II	
CO2, CO3	Define & classify the Mana-at (Immunity)	Cognitive/ Recall	MK	K	Lecture	Written/ Viva	F & S	II	
CO2, CO3	Define & describe the types of antigen	Cognitive/ Recall	DK	K	Lecture/Project work	Written/ Viva	F & S	II	
CO2, CO3	Describe the development of cell	Cognitive/ comprehe	MK	Kh	Lecture	Written/	F & S	II	

	mediated immunity	nsions				Viva			
CO2, CO3	Describe the development of humoral immunity	Cognitive/ comprehensions	MK	Kh	Lecture	Written/ Viva	F & S	II	
CO2, CO3	Define and describe the types of cytokines	Cognitive/ comprehensions	DK	Kh	Lecture/discussion	Written/ Viva	F & S	II	
CO2, CO7, CO8	Explain in detail about immunization	Cognitive/ comprehensions	NK	Kh	Lecture/small group discussion	Written/ Viva	F & S	II	
CO5, CO7, CO8	Explain & compare the immune deficiency diseases & autoimmune diseases	Cognitive/ comprehensions	NK	Kh	Lecture/PBL	Viva	F & S	II	

CO2, CO4, CO5	Explain in detail about allergy & immunological hypersensitive reactions	Cognitive/comprehensions	NK	Kh	Lecture/discussion	Written/Viva	F & S	II	
CO2, CO6	Define & describe the normal value, structure and composition of Aqrasedamwiya (platelets)	Cognitive/Recall	MK	K	Lecture	Written/Viva	F & S	II	
CO2	Describe the properties of platelets	Cognitive/Recall	MK	K	Lecture/ seminar	Written/Viva	F & S	II	
CO2	Describe the functions of platelets	Cognitive/Recall	MK	K	Lecture	Written/Viva	F & S	II	
CO2, CO3,	Explain the physiological	Cognitive/	MK	K		Written/	F & S	II	
CO4, CO6	variations in number of platelets	Recall			Lecture	Viva			
CO2	Explain the formation of platelets	Cognitive/Recall	MK	K	Lecture	Written/Viva	F & S	II	
CO1, CO2	Explain the lifespan & fate of platelets	Cognitive/Recall	MK	K	Lecture/discussion	Written/Viva	F & S	II	
CO4, CO5	Describe the applied physiology of platelets	Cognitive/Recall	DK	K	Lecture/discussion	Written/Viva	F & S	II	

CO1, CO2	Define & explain the stages of Haemostasis	Cognitive/ Recall	MK	K	Lecture	Written/ Viva	F & S	II	
CO1, CO2	Define & explain Injmadud-Dam (coagulation of blood) and blood clotting factors	Cognitive/ Recall	MK	K	Lecture/symposium	Written/ Viva	F & S	II	
CO1, CO2	Explain in detail about the stages of blood clotting	Cognitive/ comprehensions	MK	K	Lecture/discussion	Written/ Viva	F & S	II	
CO1, CO6, CO8	Define & explain the blood clot, clot retraction and fibrinolysis	Cognitive/ comprehensions	MK	K	Lecture	Written/ Viva	F & S	II	
CO1, CO3, CO7	Describe the mechanism preventing intravascular blood clotting	Cognitive/ comprehensions	MK	K	Lecture	Written/ Viva	F & S	II	
CO1, CO5,	Explain in detail about thrombosis	Cognitive/ comprehe	DK	K	Lecture	Written/	F & S	II	
CO8		nsions				Viva			
CO4, CO8	Explain in detail about Haemophilia, purpura and von willebrand disease	Cognitive/ comprehensions	DK	Kh	Lecture/PBL	Written/ Viva	F & S	II	

CO6, CO7, CO8, CO9	Describe in detail about the Khoon ki girohbandi (various blood grouping system)	Cognitive/comprehe nsions	MK	Kh	Lecture/symposium	Written/Viva	F & S	II	
CO6, CO8 CO9	Demonstrate the procedure of blood grouping & determine the ABO group	Psychomo tor	MK	S	Lecture/Practical/ Demonstration	Written/Viva Practical	F & S	II	
CO6, CO8	Define & explain in detail about the blood transfusion	Cognitive/ Recall	MK	K	Lecture/symposium	Written/Viva	F & S	II	
CO4	Explain in detail about the transfusion reactions	Cognitive/comprehe nsions	MK	Kh	Lecture/discussion	Written/Viva	F & S	II	
CO4	Explain about the Rh incompatibility & its complications in fetus	Cognitive/comprehe nsions	MK	Kh	Lecture/Small group discussion	Written/Viva	F & S	II	
CO6, CO7, CO8	Describe the exchange transfusion & autologous blood transfusion	Cognitive/comprehe nsions	MK	Kh	Lecture/PBL	Written/Viva	F & S	II	

Topic 4- Nizam-e-Urooq-e-Lymphavia aur Shabki-o-Bashree Baatini (Lymphatic & Reticulo-endothelial system)
(Lecture:- 03 hours Non lecture 02hours)

CO2	Define and explain Nizam Urooq-e-Limfavia (lymphatic system)	Cognitive/ Recall	MK	K	Lecture	Written	F & S	II	
CO2	Explain the composition & formation of Rutubat-e-Lymphavia (lymph)	Cognitive/comprehensions	MK	Kh	Lecture/ discussion	Written/ Viva voce	F & S	II	
CO1, CO2, CO4	Describe in detail about the lymphatic channel & drainage of lymphatic system	Cognitive/comprehensions	MK	Kh	Lecture/Small group discussion	Written/viva	F & S	II	
CO2, CO4	Explain the structure & functions of lymph nodes/glands	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F & S	II	
CO2, CO8	Define & explain the Nizam-e-Shabki-oBashree Baatini (Reticuloendothelial System)	Cognitive/ Recall	MK	Kh	Lecture/symposium	Written	F & S	II	
CO2	Classify the reticulo-endothelial cells	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F & S	II	

CO2	Explain the functions of reticulo-endothelial system	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	II	
CO2	Describe the structure & functions of Tihal (spleen)	Cognitive/comprehensions	MK	Kh	Lecture	Written	F & S	II	
Topic 5- Nizam-e-Dauran-e-Khoon (Circulatory system)(Lecture:- 23 hours, Non lecture 15hours)									
CO2	Describe the functional anatomy of the Qalb (heart) including the chambers and layers of heart wall	Cognitive/Recall	MK	K	Lecture/symposium	Written/viva	F & S	III	
CO2, CO4, CO5	Explain the Samamat-e-Qalb (valves of heart) & its applied physiology	Cognitive/Recall	MK	K	Lecture/symposium / Discussion	Written/viva	F & S	III	
CO2	Explain in detail about systemic circulation, pulmonary circulation and coronary circulation	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F & S	III	

CO2	Describe foetal circulation	Cognitive/comprehensions	NK	Kh	Small group discussion	Written/viva	F & S	III	
CO2	Describe in detail of properties of cardiac muscle	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F & S	III	
CO2, CO4,	Define & explain in detail about the	Cognitive/Recall	MK	K	Lecture/symposium	Written/viva	F & S	III	

	Daura-e-Qalbi (cardiac cycle)								
CO2, CO4, CO8	Describe in detail about the Aswat-eQalb (heart sounds) including normal & abnormal	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	III	
CO2, CO6, CO9	List the methods of study of heart sounds	Cognitive/Recall	MK	K	Lecture/Practical/Demonstration	Written/viva Practical	F & S	III	
CO2, CO8	Explain and demonstrate the auscultation areas	Cognitive/Recall	MK	K	Lecture/demonstration	Written/viva practical	F & S	III	
CO2	Describe in detail about the components of conductive system of the heart/junctional tissues of the heart	Cognitive/Recall	MK	K	Lecture	Written/viva	F & S	III	

CO2, CO4, CO5	Describe the heart rate & its Physiological & pathological variations	Cognitive/comprehensions	MK	Kh	Lecture/Tutorial	Written/viva	F & S	III	
CO2, CO4,	Describe regulation of heart rate	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F & S	III	
CO1, CO2	Explain the vasomotor center	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F & S	III	
CO1,	Explain the factors	Cognitive/c		Kh				III	

CO2	affecting the vasomotor center	omprehensions	MK		Lecture/discussion	Written/viva	F & S		
CO1, CO2	Define the baroreceptors & chemoreceptors and explain their role on heart rate	Cognitive/Recall	MK	K	Lecture/discussion	Written/viva	F & S	III	
CO2, CO4, CO5	Define & Explain in detail about the venous return, and cardiac output	Cognitive/Recall	MK	K	Lecture	Written/viva	F & S	III	
CO2, CO6 CO8	Describe the stroke volume, minute volume, ejection fraction	Cognitive/comprehensions	MK	Kh	Lecture/ Tutorial	Written/viva	F & S	III	

CO2, CO8	Describe the endsystolic volume & end-diastolic volume	Cognitive/comprehensions	MK	Kh	Lecture	Viva voce	F & S	III	
CO2, CO4	Describe the physiological variations and regulation of cardiac output.	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	III	
CO2, CO5, CO8	Describe the heart block	Cognitive/comprehensions	NK	K	Lecture/symposium	Written/viva	F & S	III	
CO2, CO5	Describe the circulatory shock and heart failure	Cognitive/comprehensions	NK	K	Lecture/discussion	Open Book Test/ viva voce	F & S	III	
CO5	Describe the pathophysiology of	Cognitive/c	DK	Kh	Small group	Written/viva	F & S	III	

	various types of shock and syncope	omprehensions			discussion /Selfdirected learnings				
CO6, CO9, CO10	Define & explain the Barqi Qalb Nigari (Electrocardiography) (ECG)	Cognitive/R recall	MK	K	Lecture	Written/viva	F & S	III	
CO7, CO8	Describe the significance/usage of the ECG	Cognitive/comprehensions	MK	K	Lecture/Project work	Written/viva	F & S	III	

CO6, CO8	Describe the ECG grid, ECG leads	Cognitive/comprehensions	MK	K	Lecture	Written/viva	F & S	III	
CO6, CO8	Describe the waves of normal ECG, Intervals & segments of ECG	Cognitive/comprehensions	MK	K	Lecture/discussion	Written/viva	F & S	III	
CO6, CO9	Illustrate the Normal ECG with electrocardiograph	Psychomotor	MK	S	Lecture/ Practical/ Demonstration	Written/viva	F & S	III	
CO5 CO6 CO7 CO8	Describe the abnormal ECG, Arrhythmias, heart block, and Myocardial changes	Cognitive/comprehensions	MK	K/KH	Small group discussion /PBL	Written/viva	F & S	III	
CO2, CO8	Define the Fisharud-Dam (Blood pressure)	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F & S	III	
CO1, CO2, CO4	Explain the physiological variations of blood	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	III	

	pressure								
CO1, CO2, CO4	Describe the factors maintaining the blood pressure	Cognitive/comprehensions	MK	Kh	Lecture/symposium	Written/viva	F & S	III	

CO1, CO2, CO7	Explain in detail about various mechanism for regulation of blood pressure	Cognitive/comprehensions	MK	Kh	Lecture/symposium	Written/viva	F & S	III	
CO4, CO5, CO7	Explain the pathological variations of blood pressure (hypertension & hypotension)	Cognitive/comprehensions	DK	Kh	Lecture/discussion	Written/viva	F & S	III	
CO6, CO9,	Describe the methods for blood pressure measurement	Cognitive	MK	KH	Lecture/discussion	Viva voce	F & S	III	
Topic 6- Hayateen (Vitamins) (Lecture:- 06 hours, Non lecture 04 hours)									
CO2	Define & describe the Hayateen (Vitamins)& describe history & discovery of vitamins	Cognitive/Recall	MK	K	Lecture/Tutorial	Written/viva	F	II	
CO2	Classify the vitamins	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	II	

CO2, CO6	Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin A	Cognitive/comprehensions	MK	Kh	Lecture/symposium	Written/viva	F & S	II	
CO5	Describe the Disorders related to Vitamin A	Cognitive/comprehensions	MK	Kh	Lecture/discussion/PBL	Written/viva	F & S	II	
CO2, CO6	Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin D	Cognitive/comprehensions	MK	Kh	Lecture/symposium	Written/viva	F & S	II	
CO5	Describe the Disorders related to Vitamin D	Cognitive/comprehensions	MK	Kh	Lecture/discussion/PBL	Written/viva	F & S	II	
CO2, CO6	Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin E	Cognitive/comprehensions	MK	Kh	Lecture/symposium	Written/viva	F & S	II	

CO5	Describe the Disorders related to	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	II	
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	Vitamin E	ions							
CO2, CO6	Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin K	Cognitive/comprehensions	MK	Kh	Lecture/symposium	Written/viva	F & S	II	
CO5	Describe the Disorders related to Vitamin K	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	II	
CO2, CO6	Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin C	Cognitive/comprehensions	MK	Kh	Lecture/symposium	Written/viva	F & S	II	
CO5	Describe the Disorders related to Vitamin C	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	II	

CO2, CO6	Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin B-1 (thiamine)	Cognitive/comprehensions	MK	Kh	Lecture/symposium	Written/viva	F & S	II	
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CO5	Describe the Disorders related to Vitamin B-1 (thiamine)	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	II	
CO2, CO6	Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin B-2 (riboflavin)	Cognitive/comprehensions	MK	Kh	Lecture/symposium	Written/viva	F & S	II	
CO5	Describe the Disorders related to Vitamin B-2 (riboflavin)	Cognitive/Recall	MK	K	Lecture/discussion	Written/viva	F & S	II	

CO2, CO6	Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin B-3 (Niacin)	Cognitive/Recall	MK	K	Lecture/symposium	Written/viva	F & S	II	
CO5	Describe the Disorders related to Vitamin B-3	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	II	
CO2, CO6	Explain in detail about the chemistry, dietary sources, daily	Cognitive/comprehensions	MK	Kh	Lecture/symposium	Written/viva	F & S	II	

	requirements, & biochemical functions of Vitamin B-5 (Pantothenic acid)								
CO5	Describe the Disorders related to Vitamin B-5 (Pantothenic acid)	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	II	

CO2, CO6	Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin B-6 (Pyridoxine)	Cognitive/comprehensions	MK	Cognitive/comprehensions	Lecture/symposium	Written/viva	F & S	II	
CO5	Describe the Disorders related to Vitamin B-6 (Pyridoxine)	Cognitive/comprehensions	MK	Cognitive/comprehensions	Lecture/ discussion	Written/viva	F & S	II	
CO2, CO6	Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin B-7 (Biotin)	Cognitive/comprehensions	MK	Kh	Lecture/ symposium	Written/viva	F & S	II	
CO5	Describe the Disorders related to	Cognitive/comprehens	MK	Kh	Lecture/ discussion	Written/viva	F & S	II	

	Vitamin B-7(Biotin)	ions							
CO2, CO6	Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin B-9 (Folate/folic acid)	Cognitive/comprehensions	MK	Kh	Lecture/ symposium	Written/viva	F & S	II	
CO5	Describe the Disorders related to Vitamin B-9 (Folate/folic acid)	Cognitive/comprehensions	MK	Kh	Lecture/ discussion	Written/viva	F & S	II	
CO2, CO6	Explain in detail about the chemistry, dietary sources, daily requirements, & biochemical functions of Vitamin B-12 (Cobalamin)	Cognitive/comprehensions	MK	Kh	Lecture/ symposium	Written/viva	F & S	II	

CO5	Describe the Disorders related to Vitamin B-12 (Cobalamin)	Cognitive/comprehensions	MK	K	Lecture/ discussion	Written/viva	F & S	II	
CO5, CO7	Demonstrate common causes of deficiencies, Good food habits, healthy cooking tips to prevent	Psychomotor	NK	S	PBL/ activity learning	Written/viva	F & S	II	

	deficiencies.								
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Topic 7- Istihala (Metabolism) (Lecture:- 17 hours, Non lecture 11 hours)

CO1 CO2 CO3	Describe the introduction of Istihala (metabolism) & its types	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F & S	III	
CO1 CO2 CO3	Explain Istihala Qa'idi (BMR), SDA, RQ, ATP, calorific value.	Cognitive/comprehensions	MK	Kh	Lecture/ symposium	Written/viva	F & S	III	
CO1 CO2 CO3	Describe in detail about the Istihala of Nishasta (metabolism of carbohydrate)	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F & S	III	

CO1 CO2 CO3	Describe in detail about the Glycolysis	Cognitive/comprehensions	MK	Kh	Lecture/symposium	Written/viva	F & S	III	
CO1 CO2 CO3	Explain in detail about the pyruvate dehydrogenase complex & its reactions	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F & S	III	
CO1 CO2 CO3	Describe in detail about the Citric acid cycle	Cognitive/comprehensions	MK	Kh	Lecture/symposium	Written/viva	F & S	III	
CO1 CO2 CO3	Explain about the Gluconeogenesis	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	III	

CO1 CO2 CO3	Explain about the Glycogenesis	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F & S	III	
CO1 CO2 CO3	Describe the Glycogenolysis	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F & S	III	
CO1 CO2 CO3	Describe the Hexose Monophosphate Shunt	Cognitive/comprehensions	MK	Kh	Small group discussion/PBL	Written/viva	F & S	III	
CO4 CO5	Describe the disorders related to carbohydrate metabolism	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	III	

CO1 CO2 CO3	Describe in detail about the Istihala of Shahmiyat (Metabolism of Lipids)	Cognitive/comprehensions	MK	Kh	Lecture, problem based learning	Written/viva	F & S	III	
CO2, CO4, CO8	Explain Beta oxidation	Cognitive/comprehensions	MK	Kh	Lecture	written/ viva voce	F & S,	III	
CO1 CO2 CO3	Describe the Triglycerols and body lipids	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F & S	III	
CO1 CO2 CO3	Explain the mobilisation of fats from adipose tissues	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	III	
CO1 CO2 CO3	Describe the fate of glycerol & fatty acid	Cognitive/comprehensions	NK	Kh	Lecture/discussion	Written/viva	F & S	III	

		ions							
CO1 CO2 CO3	Explain in detail about the Fatty acid oxidation	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F & S	III	
CO1 CO2 CO3	Describe the ketone bodies & ketogenesis	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	III	
CO1 CO2 CO3 CO5	Describe the utilization & overproduction of ketone bodies	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	III	

CO4 CO5	Describe in detail about the ketonaemia, ketonuria, ketosis & ketoacidosis	Cognitive/comprehensions	MK	Kh	Lecture/Tutorial	Written/viva	F & S	III	
CO1 CO2 CO3	Explain in detail about the biosynthesis of fatty acids	Cognitive/comprehensions	DK	Kh	Lecture	Written/viva	F & S	III	
CO1 CO2 CO3 CO5	Explain in detail about the synthesis & degradation of cholesterol	Cognitive/comprehensions	NK	Kh	Lecture	Written/viva	F & S	III	
CO5	Describe the disorders of cholesterol	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F & S	III	
CO1 CO2 CO3	Explain in detail about the Lipoproteins and its classification	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	III	
CO5	Describe the	Cognitive/c		Kh	Lecture/discussion	Viva voce		III	

	disorders of plasma lipoproteins	omprehensions	DK				F & S		
CO1 CO2 CO3	Describe the lipotropic factors	Cognitive/comprehensions	NK	Kh	Lecture	Written/viva	F & S	III	

CO4 CO5 CO6	Describe the simani-mufrat (obesity) & muasshir kullatul jism (BMI)	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F & S	III	
CO4 CO5	Describe the atherosclerosis & its association with cholesterol and lipoproteins	Cognitive/comprehensions	DK	K	Lecture	Written/viva	F & S	III	
CO1 CO2 CO3	Describe in detail about the Istihalae-Humooze Shorain (Metabolism of amino acids)	Cognitive/comprehensions	MK	Kh	Lecture/symposium	Written/viva	F & S	III	
CO1 CO2 CO3	Describe about the proteins & amino acid pool	Cognitive/comprehensions	DK	Kh	Lecture	Written/viva	F & S	III	
CO1 CO2 CO3	Explain in detail about the Transamination	Cognitive/comprehensions	MK	Kh	Lecture/Tutorial	Written/viva	F & S	III	
CO1 CO2 CO3	Explain in detail about the Deamination	Cognitive/comprehensions	MK	Kh	Lecture/discussion	Written/viva	F & S	III	
CO1	Describe in detail	Cognitive/c		Kh		Written/viva		III	
CO2 CO3	about metabolism of ammonia	omprehensions	MK		Lecture/discussion		F & S		

CO1 CO2 CO3	Describe in detail about the Urea cycle	Cognitive/comprehensions	MK	Kh	Lecture/symposium	Written/viva	F & S	III	
CO1 CO2 CO3	Describe about the blood urea & its importance	Cognitive/comprehensions	DK	Kh	Lecture	Viva voce	F & S	III	
CO1 CO2 CO3	Describe istihala-e-Madniyat aur istihala-e-ma'a (mineral and water metabolism).	Cognitive/comprehensions	DK	Kh	Lecture	Written/viva	F & S	III	

Table 3: Learning objectives of Manafeul Aza UNIUG-MZ - Paper – II (Theory)

A3 Course outcome	B3 Learning Objective (At the end of the session, the Students should be able to)	C3 Domain/Subject	D3 Must to know/desirable to know/Nice to know	E3 Level Does/shows / Knows how/ Knows	F3 T-L method	G3 Assessment	H3 Formative /summative	I3 Term	J3 Integration
Topic 1-Nizam-i-Hazm(Digestive system) (Lecture:- 17 hours, Non lecture 07hours)									
CO8	Describe Tamheede-nizam-e-hazm (introduction of digestive system),	Cognitive/comprehensions	MK	Kh	Lecture	written/ viva voce	F	I	
CO2	Explain Functional	Cognitive/c	MK	Kh	Lecture/ Video Clip	written/ viva	F & S	I	

	anatomy of primary digestive organs	omprehensions				voce			
CO2	Describe Functional anatomy of oesophagus	Cognitive/comprehensions	MK	Kh	Lecture/ displaying photos on ppt	written/ viva voce	F & S	I	
CO2	Describe Functional anatomy of stomach	Cognitive/comprehensions	MK	Kh	Lecture/ displaying photos on ppt	written/ viva voce	F & S	I	
CO2	Describe Functional anatomy of small intestines,	Cognitive/comprehensions	MK	Kh	Lecture/ displaying photos on ppt	written/ viva voce	F & S	I	
CO2	Describe Functional anatomy of large intestines	Cognitive/comprehensions	MK	Kh	Lecture/ displaying photos on ppt	written/ viva voce	F & S	I	
CO2	Describe Functional anatomy of secondary digestive organs -salivary glands,)	Cognitive/comprehensions	MK	Kh	Lecture/ Educational Videos/ concept map	written/ viva voce	F & S	I	
CO2	Describe Functional anatomy of teeth,	Cognitive/comprehensions	DK	Kh	Lecture/ displaying photos on ppt	written/ viva voce	F & S	I	
CO2	Describe Functional anatomy of liver,	Cognitive/comprehensions	MK	Kh	Lecture/ displaying photos on ppt	written/ viva voce	F & S	I	
CO2	Describe Functional anatomy of gall bladder,	Cognitive/comprehensions	DK	Kh	Lecture/ displaying photos on ppt	written/ viva voce	F & S	I	

CO2	Describe Functional anatomy of pancreas	Cognitive/comprehensions	MK	Kh	Lecture/ displaying photos on ppt	written/ viva voce	F & S	I	
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		ions							
CO2,CO8, CO9	Demonstrate Ghudood-e-luabiya ki Khurd beeni saqht (histology of salivary glands),	Psychomotor	MK	S	Demonstration/microscopy/practical	written/ viva voce	F & S	I	
CO2	Explain Luab-edahan ki Khususiyat aur tarkeeb (characteristics & composition of saliva)	Cognitive/comprehensions	MK	Kh	Lecture,	written/ viva voce	F & S	I	
CO3	Describe Luab-edahan ke tarashshoh ki tanzeem aur afaal (regulation of secretion of saliva and functions),	Cognitive/comprehensions	MK	Kh	Lecture/ concept map	written/ viva voce	F & S	I	
CO4	Explain Luab-edahan ki itlaqi ehmiyat (applied physiology of saliva)	Cognitive/comprehensions	MK	Kh	Lecture/Tutorial	written/ viva voce	F & S	I	

CO2, CO8, CO9	Demonstrate Ghudood-e-meddi ki khurd beeni saqht (histology of gastric glands),	Psychomotor	NK	S	Demonstration/ practical/ lecture,	written/ viva voce	F & S	I	
CO2	Describe Rutubate-medi ki khususiyat aur tarkeeb	Cognitive/comprehensions	MK	Kh	Lecture	written/ viva voce	F & S	I	

	(characteristics & composition of gastric juice)								
CO3	Explain Rutubate-medi ke tarashshoh ki tanzeem aur afaal (regulation of secretion and functions of gastric juice),	Cognitive/comprehensions	MK	Kh	Lecture	written/ viva voce	F & S	I	
CO4	Describe Rutubate-medi ki itlaqi ehmiyat (applied physiology of gastric juice)	Cognitive/comprehensions	NK	Kh	Lecture	written/ viva voce	F & S	I	
CO2	Demonstrate Banqiras ki Khurd beeni saqht (histology of pancreas),	Psychomotor	MK	S	Demonstration/ practical/ lecture, Display of photos of histological slides	written/ viva voce	F & S	I	

CO2	Describe Rutubat-ebanqras ki Khususiyat aur tarkeeb (characteristics & composition of pancreatic juice)	Cognitive/comprehensions	MK	Kh	Lecture	written/ viva voce	F & S	I	
CO3	Explain Rutubat-ebanqiras ke tarashshoh ki tanzeem aur afaal (regulation of secretion and	Cognitive/comprehensions	MK	Kh	Lecture	written/ viva voce	F & S	I	

	functions of pancreatic juice),								
CO4	Describe Rutubat-ebanqiras ki itlaqi ahmiyat (applied physiology of pancreatic juice)	Cognitive/comprehensions	MK	Kh	Lecture/ small group teaching	written/ viva voce	F & S	I	
CO2	Describe Rutubat-esafravi ki khususiyat aur tarkeeb (characteristics & composition of bile)	Cognitive/comprehensions	MK	Kh	Small group discussion	written/ viva voce	F & S	I	

CO2	Explain Rutubat-esafravi ke tarashshoh ki tanzeem aur afaal (regulation of secretion and functions of bile),	Cognitive/comprehensions	MK	Kh	Lecture/ concept map	written/ viva voce	F & S	I	
CO3	Describe Rutubat-esafravi ki itlaqi ahmiyat (applied physiology of bile)	Cognitive/comprehensions	MK	Kh	Self-study/ lecture	written/ viva voce	F & S	I	
CO4	Explain Rutubat-emayvi ki tarkeeb, tarassho aur afaal (composition, regulation of secretion and functions of succus entericus)	Cognitive/comprehensions	MK	Kh	Lecture/ small group teachings	written/ viva voce	F & S	I	
CO2, CO3,	Describe Majra-eghizai ki harkat	Cognitive/comprehensions	MK	Kh	Lecture/ Educational Video	written/ viva voce	F & S,	I	
CO4, CO8	(movements of alimentary canal) – mastication: definition, Muscles of mastication, mechanism, benefits of prolong chewing & applied physiology.	ions							

CO2, CO3, CO4, CO8	Explain Amal-izdrad (Deglutition: definition, phases & applied physiology, safe deglutition tips)	Cognitive/comprehensions	MK	Kh	Lecture Display of animation video clips,	written/ viva voce	F & S,	I	
CO2, CO3, CO4, CO8	Describe Movements of oesophagus & their applied physiology	Cognitive/comprehensions	MK	Kh	Lecture, display of animation video clips	written/ viva voce	F & S,	I	
CO2, CO3, CO4, CO8	Describe Movements of stomach & their applied physiology	Cognitive/comprehensions	MK	Kh	Lecture, display of animation video clips	written/ viva voce	F & S,	I	
CO2, CO3, CO4, CO8	Describe Qai (Vomiting): definition, causes, types series of events during vomiting, home management tips	Cognitive/comprehensions	MK	Kh	Lecture, display of animation video clips	written/ viva voce	F & S,	I	
CO2, CO3,	Explain Movements of small intestines	Cognitive/comprehensions	MK	Kh	Lecture, display of animation video	written/ viva voce	F & S	I	

CO4, CO8	& their applied physiology	ions			clips				
CO2, CO3, CO4, CO8	Describe Movements of colon & their applied physiology	Cognitive/comprehensions	MK	Kh	Lecture, display of animation video clips	written/ viva voce	F & S, Questionnaire	I	

CO2, CO3, CO4, CO8	Explain Fuzla ka banna aur iqhraj (formation of faeces and defecation),	Cognitive/comprehensions	MK	Kh	Lecture, display of animation video clips	written/ viva voce	F & S	I	
CO2	Describe Nishashta ka hazm aur injezab (digestion & absorption of carbohydrates),	Cognitive/comprehensions	MK	Kh	Lecture/ small group discussion	written/ viva voce	F & S	I	
CO2	Describe Shorain ka hazm aur injezab (digestion & absorption of proteins)	Cognitive/comprehensions	MK	Kh	Lecture/ symposium	written/ viva voce	F & S	I	
CO2	Describe Sheham ka hazm aur injezab (digestion & absorption of lipids)	Cognitive/comprehensions	MK	Kh	Lecture/symposium	written/ viva voce	F & S	I	
CO2	Describe Paani ka injezab (absorption of water).	Cognitive/comprehensions	MK	Kh	Lecture/project work	written/ viva voce	F & S	I	
Topic 2- Nizam-e-Tanaffuss (Respiratory System) (Lecture:- 16 hours, Non lecture 11 hours)									
CO8	Describe Mukhtalif tanaffussi aaza ki	Cognitive/comprehensions	MK	Kh	Lecture	written/ viva voce	F & S	I	
	tamheed (introduction of respiratory system/organs)	omprehensions							

CO2	Describe and Demonstrate Azlaat-e-tanaffuss ki Khurd beeni sakht aur unke afaal (histological structure & functions of respiratory muscles),	psychomotor	MK	S	Demonstration, Display of histological slides	written/ viva voce	F & S	I	
CO2	Explain Tanaffuss ka meekaniyah (mechanism of breathing)	Cognitive/comprehensions	MK	Kh	Video clips	written/ viva voce	F & S	I	
CO2, CO3	Demonstrate Oxygen aur carbon di oxide ki muntaqeeli (transport of oxygen & carbon dioxide),	Cognitive/comprehensions	MK	Kh	Lecture, display of animation video clips	written/ viva voce	F & S	I	
CO2, CO3	Describe Riya aur insaja may gason ka tabadila (gaseous exchange in lungs and tissues),	Cognitive/comprehensions	MK	Kh	Lecture, Display of animation video clips	written/ viva voce	F & S	I	
CO2	Explain Tanaffuss ke marakiz (centers of respiration),	Cognitive/comprehensions	MK	Kh	Lecture	written/ viva voce	F & S	I	

CO2, CO4	Demonstrate Masnooi tanaffuss aur inke muqhtalif tareeqe (artificial respiration and its methods),	Psychomotor	MK	S	Demonstrate/ lecture, Display of video clips, simulation	written/ viva voce	F & S	I	
CO2	Describe Ahjamee-reviyyah/ Jasamat-e-reviya (pulmonary volume),	Cognitive/comprehensions	MK	Kh	Lecture/ concept map	written/ viva voce	F & S	I	
CO2	Explain Waqaat-ereviya (pulmonary capacities)	Cognitive/comprehensions	MK	Kh	Lecture	written/ viva voce	F & S	I	
CO2, CO4, CO5	Describe Usre tanaffuss (dyspnoea), definition, causes, types, clinical presentation	Cognitive/comprehensions	MK	Kh	Lecture, Simulation	written/ viva voce	F & S	I	
CO2, CO4, CO5	Describe Qillat-ebaad (anoxia)	Cognitive/comprehensions	MK	Kh	Lecture	written/ viva voce	F & S	I	
CO2, CO4, CO5	Describe Dushwaare-tanaffuss (apnoea)	Cognitive/comprehensions	MK	Kh	Lecture/Symposium	written/ viva voce	F & S	I	
CO2, CO4, CO5	Describe Izdiyad-etanaffuss (hypercapnia)	Cognitive/comprehensions	MK	Kh	Lecture/small group teachings	written/ viva voce	F & S	I	

CO2, CO4, CO5	Explain Sathemurtafa aur gehre paani ke feliyati	Cognitive/comprehensions	MK	Kh	Lecture/ Tutorial	written/ viva voce/project work	F & S	I	
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	asraat (physiological effect of high altitude & under water).	ions							
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Topic 3- Nizam-e-Ikhraj (Excretory system) (Lecture:- 14 hours, Non lecture 11hours)

CO2	Describe the structure and function of kulliya (kidney)	Cognitive/comprehensions	MK	KH	Lecture	Written/Viva	F&S	II	
CO2, CO3	Explain the non-excretory functions of kidney	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	II	
CO2	Describe the structure and function of (kulvikai) nephron	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	II	
CO2, CO3	Describe the kulliyavi doran-e-khoon (renal circulation)	Cognitive/comprehensions	DK	KH	Lecture	Written/viva	F&S	II	
CO2, CO6, CO7	Enumerate the steps to measure renal blood flow.	Cognitive/Recall	NK	K	Small group teaching	Written/viva	F&S	II	

CO2	Describe the structure and function of aljihazul mujawiru lilkubaiba (Juxta glomerulus apparatus)	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	II	
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CO2, CO3	Explain the renin-angiotensin system	Cognitive/comprehensions	MK	KH	Lecture/small group teaching	Written/viva	F&S	II	
CO2, CO4	Describe the mechanism of paidish-e-bowl (urine formation involving processes of Filtration, tubular reabsorption and secretion.	Cognitive/comprehensions	MK	KH	Lecture/symposium	Written/viva	F&S	II	
CO2	Explain the counter-current mechanism of urine concentration.	Cognitive/comprehensions	MK	Kh	Small group teaching	Written/viva	F&S	II	
CO4, CO6	Define & describe shrah at tarsheehul kubabibi (glomerular filtration rate) & factors affecting GFR	Cognitive/comprehensions	DK	Kh	Lecture	Written/viva	F&S	II	

CO2	EXPLAIN the tubular reabsorption process and process of tubular secretion.	Cognitive/comprehensions	MK	Kh	Lecture/video clips	Written/viva	F&S	II	
CO2, CO3	Explain renal clearance mechanisms	Cognitive/comprehensions	NK	Kh	Small group discussion/PBL	Written/viva	F&S	II	

CO2, CO6	Describe the methods to measure GFR, and other clearance tests	Cognitive/comprehensions	MK	Kh	Small group teaching	Written/viva	F&S	II	
CO1, CO4	Describe renal Regulation of fluid and electrolytes	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	II	
CO1, CO2, CO3	Describe the role of kidney in maintaining body temperature	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	II	
CO2, CO3	Explain physiology of micturition and its abnormalities	Cognitive/comprehensions	MK	Kh	Small group teaching	Written/viva	F&S	II	
CO4, CO6	Bowl ka radde-amal aur wazn-e-makhsoos (reaction and specific gravity of urine),	Cognitive/comprehensions	MK	Kh	Lecture/ small group teachings	Written/ viva voce	F & S	II	

CO6, CO7	Describe cystometry and urogram	Cognitive/comprehensions	NK	Kh	Small group discussion/PBL	Written/viva	F&S	II	
CO4	Describe urinary bladder dysfunctions	Cognitive/comprehensions	NK	Kh	Small group discussion/PBL	Written/viva	F&S	II	
CO4	Explain the mechanism of action of diuretics	Cognitive/comprehensions	NK	Kh	Lecture	Written/viva	F&S	II	
CO4	Describe artificial kidney, and renal	Cognitive/comprehensions	NK	Kh	Self-directed learning	Written/viva	F&S	II	

	transplantation.	ions							
CO4	List the indications and need of renal transplantation	Cognitive/Recall	NK	K	Symposium	Written/viva	F&S	II	
CO4	List the indications of dialysis.	Cognitive/Recall	DK	K	Symposium	Written/viva	F&S	II	
CO4	Describe and discuss advantages & complications of renal transplantation..	Cognitive/comprehensions	NK	Kh	Self-study	Written/viva	F&S	II	
CO6, CO7	Enumerate & describe the renal function tests	Cognitive/Recall	MK	K	Lecture/ concept map	Written/viva	F&S	II	
CO6, CO7	Interpret & analyze RFT	Cognitive/Analysis	DK	Kh	Lecture/PBL	Written/viva	F&S	II	

CO2, CO3	Describe unani concept of istifraghe-tabayi	Cognitive/comprehensions	MK	KH	Tutorials/small group discussion	Written/viva	F	II	
CO2, CO3	Describe unani concept of idrar-e-bowl.	Cognitive/comprehensions	MK	KH	Tutorials/small group discussion	Written/viva	F	II	
CO2, CO3	Describe unani concept of ihtibase-bowl	Cognitive/comprehensions	MK	KH	Tutorials/small group discussion	Written/viva	F	II	

Topic 4- Nizam-ie-Jild (Integumentary system)

(Lecture:- **04** hours, Non lecture **02** hours)

CO2	Describe Jild ki saqht aur afaal (structure and	Cognitive/comprehensions	MK	Kh	Lecture, display of histological slides	Written/ viva voce	F & S	II	
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	functions of skin) [integument],								
CO2, CO4,	Explain Arq (sweat)	Cognitive/comprehensions	MK	Kh	Lecture	Written/ viva voce	F & S	II	
CO2, CO3 CO4	Describe Hararat-e-badaniya ke tavazun mein jild ka kirdar (role of skin in regulation of body temperature)	Cognitive/comprehensions	MK	Kh	Lecture/ symposium	Written/ viva voce	F & S	II	

CO2, CO3, CO4, CO5	Describe Ghair tabiyyee hararat aur qillate-hararat (abnormal and subnormal temperature).	Cognitive/comprehensions	MK	Kh	Lecture/ PBL	Written/ viva voce	F & S	II	
Topic 5- Nizam-e-Asab (Nervous system) (Lecture:- 19 hours, Non lecture 11 hours)									
CO2, CO3	Describe the functional anatomy and physiological properties of the nerves	Cognitive/comprehensions	MK	Kh	Lecture/selfdirected learning	Written/viva	S	II	
CO2, CO3	Describe organization of the nervous	Cognitive/comprehensions	MK	Kh	Lecture / concept map	Written/viva	S	II	
	system into central NS, peripheral NS, somatic NS & autonomic NS.								

CO2, CO3	Describe and define action potentials in nervous system	Cognitive/comprehensions	MK	KH	Lecture/ video clip	Written/viva	F &S	II	
CO2, CO 3, CO 4	List the factors affecting conduction velocity in a nerve.	Cognitive/Recall	NK	K	Lecture	Written/viva	S	II	
CO2, CO 3	Outline the cell types present in the nervous system	Cognitive/comprehensions	MK	Kh	Lecture /Project work	Written/viva	F&S	II	
CO2, CO 3	Describe structural and functional morphology of neurons	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F&S	II	
CO2, CO 3	Describe the different types	Cognitive/comprehensions	MK	Kh	Project work	Written/viva	F&S	II	

	of neurons and neuroglia								
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CO2, CO 3	Differentiate between myelinated and non-myelinated neurons and between white matter and grey matter.	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F&S	II	
CO2, CO 3	Define and describe the terms 'nuclei' and 'ganglia'	Cognitive/Recall	MK	K	Lecture	Written/viva	S	II	
CO2, CO 3	Define the term nerve fibres and state the types of fibres	Cognitive/Recall	MK	K	LECTURE / tutorial	Written/viva	F&S	II	
CO2, CO 3	Outline the types of fibres in a mixed peripheral nerve.	Cognitive/Recall	MK	K	LECTURE/concept map	Written/viva	F&S	II	
CO2, CO 3	Define the term mashbak/ittisal (synapse)	Cognitive/Recall	MK	K	Lecture	Written/viva	F&S	II	

CO2, CO 3	Differentiate between electrical & chemical synapse	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	II	
CO4	Describe chemical synapse transmission	Cognitive/comprehensions	MK	KH	LECTURE/ video clip	Written/viva	S	II	
CO2, CO 3	Define the term asabi mursalat (neurotransmitters)	Cognitive/Recall	MK	K	Lecture	Written/viva	F	II	
CO2, CO 3	Outline and classify the various neurotransmitters	Cognitive/comprehensions	DK	Kh	Self-directed learning	Written/viva	F	II	
CO2, CO 3,	Describe functioning of neurotransmitters	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F&S	II	
CO2, CO 3	Describe organization and functional anatomy of CNS	Cognitive/comprehensions	MK	Kh	LECTURE/ concept map	Written/viva	F&S	II	

CO2, CO 3	Describe	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F&S	II	
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	functions of CNS	ions							
CO2, CO 3	Explain integrative functions of CNS and levels of CNS	Cognitive/comprehensions	MK	Kh	LECTURE/Role play	Written/viva	F&S		
CO2, CO 3	Define & classify sensations	Cognitive/Recall	MK	K	Lecture	Written/viva	F&S	II	
CO2, CO 3	Describe sensory modalities	Cognitive/Recall	MK	K	Lecture	Written/viva	F&S	II	
CO2, CO 3	List the sensory receptor for each modality of sensation	Cognitive/Recall	MK	K	Lecture/Project work	Written/viva	F&S	II	
CO2, CO 3	Describe pain and temperature receptors	Cognitive/Recall	MK	K	Lecture	Written/viva	F&S	II	
CO2, CO 3	Describe touch receptors	Cognitive/Recall	MK	K	Lecture	Written/viva	F&S	II	
CO2, CO 3	Describe receptors for proprioception	Cognitive/Recall	MK	K	Lecture	Written/viva	F&S	II	

CO2, CO 3	Describe sensory pathways for Transmitting somatic signals.	Cognitive/comprehensions	MK	Kh	Lecture/concept map	Written/viva	F&S	II	
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CO2, CO 3,	Describe ascending and descending tracts	Cognitive/Recall	MK	K	Lecture/concept map	Written/viva	F&S	II	
CO2, CO 3,	Describe the organizations of the motor system.	Cognitive/Recall	MK	KH	Lecture/tutorials	Written/viva	F&S	II	
CO2, CO 3, CO 4	Define & describe UMN & LMN LESIONS	Cognitive	MK	KH	Lecture/PBL	Written/viva	F&S	II	
CO2, CO 3, CO 4	Define and classify the term 'reflex'	Cognitive/Recall	MK	K	Lecture	Written/viva	F&S	II	
CO2, CO 3, CO 4	Illustrate the components of a reflex arc diagrammatically	Cognitive/Recall	MK	KH	Lecture/concept map	Written/viva	F&S	II	

CO2, CO 3, CO 4	Describe in detail, the physiological significance of reflexes	Cognitive/c omprehens ions	DK	KH	Lecture	Written/viva	F&S	II	
CO2, CO 3,	Describe organization and	Cognitive/c omprehens ions	NK	K	Lecture	Written/viva	F&S	II	

	the functional anatomy of cerebellum								
CO2, CO 3,	Describe functions of cerebellum	Cognitive/c omprehens ions	MK	KH	Lecture	Written/viva	F&S	II	
CO2, CO 3,	Define the term basal ganglia.	Cognitive/R ecall	MK	K	Lecture	Written/viva	F&S	II	
CO2, CO 3,	Outline the forming elements of the basal ganglia	Cognitive/c omprehens ions	MK	Kh	Lecture/Project work	Written/viva	F&S	II	

CO2, CO 3, CO 4	Explain the physiological role and significance of basal ganglia.	Cognitive/comprehensions	MK	KH	LECTURE/symposium	Written/viva	F&S	II	
CO2, CO 3,	Define the autonomic nervous system	Cognitive/Recall	MK	K	Lecture	Written/viva	F&S	II	
CO2, CO 3,	Describe classification of the autonomic nervous system	Cognitive/comprehensions	MK	Kh	LECTURE/concept map	Written/viva	F&S	II	

CO2, CO 3,	Outline the functions of the autonomic nervous system	Cognitive/comprehensions	MK	Kh	Lecture/Project work	Written/viva	F&S	II	
CO2, CO 3,	Differentiate between sympathetic and para sympathetic nervous system	Cognitive/comprehensions	MK	Kh	LECTURE/Role play	Written/viva	F&S	II	

CO2, CO 3,	Describe physiological anatomy of spinal cord	Cognitive/comprehensions	MK	Kh	Self-directed learning/ lecture	Written/viva	F&S	II	
CO2, CO 3,	Describe spinal nerves and nerve roots	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F&S	II	
CO2, CO 3,	Describe arrangements of white and grey matter in spinal cord	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F&S	II	
CO2, CO 3, CO 4	Describe CSF, and its composition	Cognitive/comprehensions	MK	Kh	Lecture/Project work	Written/viva	F&S	II	
CO2, CO 3, CO 4	Describe characteristics and functions of CSF	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F&S	II	

CO2, CO 3, CO 4, CO 5	Outline the factors controlling the formation and circulation of CSF	Cognitive/Recall	DK	K	Lecture/small group teachings	Written/viva	F&S	II	
CO2, CO 3	Define and classify sleep	Cognitive/Recall	DK	K	Self-study	Written/viva	F&S	II	
CO2, CO 3	Describe physiological changes during sleep	Cognitive/comprehensions	NK	KH	Lecture	Written/viva	F&S	II	
CO2, CO 3	Explain stages of sleep	Cognitive/comprehensions	DK	KH	LECTURE/Small group teaching	Written/viva	F&S	II	
CO2, CO 3	Define and classify pain	Cognitive/Recall	MK	K	Lecture	Written/viva	F&S	II	
CO2, CO 3, CO 4, CO 5	Describe pathways and mechanism of pain	Cognitive/comprehensions	MK	KH	LECTURE/concept map	Written/viva	F&S	II	
CO2,	Describe	Cognitive/c	MK	KH	Self directed	Written/viva	F&S	II	

CO 3, CO 4	quwwat-enafsanniyah	omprehensions			learning				
CO2, CO 3, CO 4	Describe hawase-khamsa zahira wa batina	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	II	
CO9	Describe & demonstrate EEG	Psychomotor	MK	S	Lecture/demonstration	Written/viva	F&S	II	
CO9	Outline the main clinical uses of EEG	Cognitive/Recall	NK	K	Lecture/ Project work	Written/viva	F&S	II	
CO2, CO 3, CO 6, CO 9	Elicit various superficial and deep reflexes and indicate their significance.	Psychomotor	MK	S	LECTURE/demonstration	Written/viva	F&S	II	
CO2, CO 3	Describe the structure and functions of taste buds	Cognitive/comprehensions	DK	KH	Lecture	Written/viva	F&S	II	

CO2, CO 3	Outline location of taste buds and mechanism of	Cognitive/comprehensions	MK	KH	Lecture/small group discussion	Written/viva	F&S	II	
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	stimulation of taste bud								
CO2, CO 3	Describe pathways for taste transmission	Cognitive/comprehensions	MK	KH	LECTURE/concept map	Written/viva	F&S	II	
CO2, CO 3	Define primary taste sensations and describe taste transduction	Cognitive/Recall	MK	K	Lecture	Written/viva	F&S	II	
CO2, CO 3, CO 4	Outline the taste receptors	Cognitive/Recall	MK	K	Lecture/ Project work	Written/viva	F&S	II	
CO2, CO 3, CO 4	Describe olfactory receptors and mechanism of excitation of the olfactory cells	Cognitive/comprehensions	MK	KH	Lecture/tutorials	Written/viva	F&S	II	

CO2, CO 3,	Describe olfactory pathways and transmission.	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	II	
CO2, CO 3,	Explain olfactory transduction	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	II	

		ions							
CO2, CO 3,	Describe rapid adaptation of olfactory sensations	Cognitive/comprehensions	MK	KH	LECTURE/ small group teaching	Written/viva	F&S	II	
CO2, CO 3, CO 4	Explain threshold for olfactory sensations	Cognitive/Recall	MK	K	Lecture	Written/viva	F&S	II	
CO2, CO 3, CO 5	Outline the pathophysiology of altered taste and smell	Cognitive/Recall	NK	K	Lecture/Project work	Written/viva	F&S	II	
CO2, CO 3	Describe and discuss functional anatomy of ear	Cognitive/comprehensions	MK	Kh	LECTURE/ video clip	Written/viva	F&S	II	

CO2, CO 3	Describe tympanic membrane and the Ossicular system	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F&S	II	
CO2, CO 3	Explain conduction of sound from the	Cognitive/comprehensions	MK	Kh	LECTURE/ video clip	Written/viva	F&S	II	

	Tympanic membrane to the cochlea								
CO2, CO 3	Describe transmission of sound through Bone	Cognitive/comprehensions	MK	KH	LECTURE/ video clip	Written/viva	F&S	II	
CO2, CO 3	Describe functional anatomy of the Cochlea	Cognitive	MK	Kh	LECTURE/ video clip	Written/viva	F&S	II	
CO2, CO 3	Explain transmission of sound waves in The cochlea	Cognitive/comprehensions	MK	KH	LECTURE/symposium	Written/viva	F&S	II	

CO2, CO 3	Describe function of the organ of corti	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	II	
CO2, CO 3, CO 4	Describe determination of sound Frequency	Cognitive/comprehensions	DK	KH	Lecture	Written/viva	F&S	II	
CO2	Describe brief physics of sound and concept of	Cognitive/comprehensions	NK	KH	Self-directed learning/ lecture	Written/viva	F&S	II	

	the decibel scale								
CO2, CO 7	Describe threshold for hearing sound, and list it for different Frequencies	Cognitive/comprehensions	NK	KH	Self-directed learning/ lecture	Written/viva	F&S	II	
CO2, CO 3	Describe auditory nervous pathways and their mode of functioning	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	II	

CO2, CO 3	Explain functions of the cerebral cortex in Hearing	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	II	
CO2, CO 3	Explain determination of the direction From which sound comes and neural mechanisms for detecting sound direction	Cognitive/comprehensions	MK	KH	LECTURE/Role play	Written/viva	F&S	II	

CO2, CO 3, CO 4, CO 5	Outline pathophysiology of deafness	Cognitive/Recall	MK	KH	Lecture/Project work	Written/viva	F&S	II	
CO2, CO 7	Outline & describe various tests of hearing	Cognitive/Recall	MK	KH	Lecture	Written/viva	F&S	II	

CO2, CO 3	Describe the physiological anatomy of the eye and its accessory Structures	Cognitive/R ecall	MK	K	LECTURE/video clip	Written/viva	F&S	II	
CO2, CO 3	Describe anatomy and function of the retina	Cognitive/c omprehens ions	MK	Kh	Lecture	Written/viva	F&S	II	
CO2, CO 3	Explain the formation of image on the retina	Cognitive/c omprehens ions	MK	Kh	Lecture	Written/viva	F&S	II	
CO2, CO 3, CO 4	Explain mechanism of “accommodation” and its significance in	Cognitive/c omprehens ions	MK	Kh	LECTURE/video clip	Written/viva	F&S	II	

	eye optics								
CO2, CO 3, CO 9, CO 10	Describe visual acuity	Cognitive/c omprehens ions	MK	Kh	LECTURE / demonstration	Written/viva	F&S	II	

CO2, CO 3, CO 4	Describe and classify Intraocular fluids	Cognitive	MK	K	Lecture	Written/viva	F&S	II	
CO2, CO 3, CO 4	Explain formation and outflow of aqueous humour	Cognitive/comprehensions	DK	KH	LECTURE/video clip	Written/viva	F&S	II	
CO2, CO 3, CO 6	Define intraocular pressure and describe its physiological and clinical significance	Cognitive/Recall	MK	K	LECTURE/Small group teaching	Written/viva	F&S	II	
CO2, CO 3	Describe photoreceptors and photochemistry of vision	Cognitive/comprehensions	MK	KH	LECTURE/Small group teaching	Written/viva	F&S	II	
CO2, CO 3	Define rhodopsin-	Cognitive/Recall	MK	K	Lecture	Written/viva	F&S	II	

	retinal Visual cycle and mechanism of Excitation of the rods								
CO2, CO 3	Describe colour vision and role of Cones	Cognitive/c omprehens ions	MK	KH	Lecture/pbl	Written/viva	F&S	II	
CO2, CO 3	Explain mechanics of colour detection	Cognitive/c omprehens ions	DK	KH	Student teaching	Written/viva	F&S	II	
CO2, CO 3	Describe light and dark Adaptation	Cognitive/c omprehens ions	DK	KH	Lecture	Written/viva	F&S	II	
CO2, CO 3	Describe visual pathways	Cognitive/c omprehens ions	MK	K	LECTURE/concept map	Written/viva	F&S	II	
CO2, CO 3	Describe organization and function of the Visual cortex	Cognitive/c omprehens ions	NK	K	Lecture	Written/viva	F&S	II	

CO2, CO 3, CO 4	Describe eye movements and their muscular and neural control	Cognitive/comprehensions	DK	KH	LECTURE/video clip	Written/viva	F&S	II	
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CO2, CO3, CO4	Explain fusion of the visual images from The two eyes	Cognitive/comprehensions	DK	KH	Self-study	Written/viva	F&S	II	
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CO4, CO5	Define hyperopia, myopia, astigmatism, presbyopia, and strabismus	Cognitive/Recall	MK	K	Lecture/PBL	Written/viva	F&S	II	
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CO2, CO4, CO5	Describe and discuss the physiological basis of lesion in visual pathway	Cognitive/Recall	MK	K	Lecture/PBL	Written/viva	F&S	II	
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CO4, CO5	DESCRIBE in detail the errors of refraction and outline the ways to correct refractive errors of eye	Cognitive/A pplication	MK	KH	Lecture/Project Work	Written/viva	F&S	II	
CO9	Demonstrate steps to test	Cognitive/ Psychomot	MK	S	Demonstration	Written/viva	F&S	II	

	distant and near vision	or							
CO9	Outline the tests of colour vision	Cognitive/R ecall	MK	K	Lecture/demonstrati on	Written/viva	F&S	II	

Topic 6- Nizam-e-Ghudoode-la Qanatiyah (Endocrine system) (Lecture:- 19 hours, Non lecture 10hours)

CO2	Describe ghudoode-la qanatiyah endocrine glands)	Cognitive/R ecall	MK	K	Lecture	Written/viva	F&S	III	
CO2	Define rasilat (hormones)& Classify the hormones based on their chemical nature	Cognitive/R ecall	MK	K	Self-directed learning	Written/viva	F&S	III	

CO2	Discuss & describe synthesis of hormones	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	III	
CO3, CO 4	Describe the general properties of rasilat.	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	III	
CO7	Describe radioimmunoassay	Cognitive/comprehensions	NK	KH	Lecture/video clip	Viva	F&S	III	
CO3, CO 4	Explain the mechanism of action of hormones.	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	III	

CO3, CO 4	Describe cAMP second messenger system.	Cognitive/comprehensions	MK	KH	Lecture / concept map	Written/viva	F&S	III	
CO2	Describe the calcium metabolism and physiology of bone	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	III	
CO2	Discuss the hormones for calcium metabolism, their secretion and regulation	Cognitive/comprehensions	MK	KH	Lecture /seminar	Written/viva	F&S	III	

CO2, CO 3	Describe the jar-i-darqin (parathormone) and its functioning In calcium metabolism	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	III	
CO2, CO 3	Discuss the physiological anatomy of taht-us-sarir (hypothalamus)	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	III	
CO2	Enumerate the hormones released from Hypothalamus & discuss their roles	Cognitive/Recall	MK	K	Lecture	Written/viva	F&S	III	
CO2, CO 3	Describe the functional anatomy	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F&S	III	

	of ghudda nukhamiyah (pituitary),	ions							
CO2, CO3	List the hormones secreted from ghudda nukhamiyah muqaddam (anterior pituitary) & discuss their functions.	Cognitive/Recall	MK	K/KH	Small group discussion/lecture	Written/viva	F&S	III	

CO2, CO 3, CO 4	Describe the synthesis & REGULATION of the rasila-i-namu (growth hormone)	Cognitive/comprehensions	MK	KH	Small group teaching	Written/viva	F&S	III	
CO2, CO 3, CO 4	Describe the physiological Functions of the growth hormone	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	S	III	
CO2, CO 3, CO 4	Describe abnormalities of Growth hormone secretions	Cognitive/comprehensions	MK	KH	Lecture/video clip	Written/viva	S	III	
CO2, CO 3	Describe the physiological anatomy of posterior Pituitary.	Cognitive/comprehensions	MK	Kh	Self-directed learning	Written/viva	F	III	
CO2, CO 3	List the hormones released from posterior pituitary.	Cognitive/Recall	MK	K	Lecture	Written/viva	F&S	III	
CO2, CO 3,	Outline the synthesis,	Cognitive/Recall	MK	K	Lecture	Written/viva	F&S	III	
CO 4	Regulation and actions of ADH								

CO4	Discuss the disorders of ADH secretion	Cognitive/comprehensions	DK	KH	Lecture/ symposium	Written/viva	S	III	
CO4	Explain syndrome of inappropriate hyper-secretion of anti-diuretic hormone (SIADH)	Cognitive/comprehensions	DK	KH	Lecture	Written/viva	S	III	
CO2, CO 3, CO 4	Outline the synthesis, Regulation and actions of Oxytocin	Cognitive/Recall	MK	K	Small group teaching	Written/viva	F&S	III	
CO2, CO 3, CO 4	Describe functional anatomy of ghudda-e darqiyyah	Cognitive/comprehensions	MK	Kh	Self-directed learning	Written/viva	F	III	
CO2, CO 3, CO 4	Describe the synthesis and secretion of the darqin (Thyroid) metabolic hormones	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F&S	III	
CO2, CO 3, CO 4	Describe physiological effects of darqin (thyroid hormone)	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F&S	III	
CO2, CO 3, CO 4	Enumerate the signs and symptoms of hyper	Cognitive/Recall	MK	K	Lecture/PBL	Written/viva	F	III	

	& hypo secretions of thyroid hormones								
CO2, CO 3, CO 4	Describe goitre and discuss its pathophysiology	Cognitive/comprehensions	MK	Kh	Lecture/video clip	Written/viva	F	III	
CO2,	Describe the physiological anatomy of ghudda-e- kazriyyah (adrenal cortex and medulla)	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F	III	
CO2, CO 3	Enumerate the hormones released from adrenal cortex	Cognitive/Recall	MK	K	Lecture	Written/viva	F	III	
CO2, CO 3	Describe the functions of the hormones released from adrenal cortex	Cognitive/comprehensions	MK	Kh	Lecture	Written/viva	F& S	III	
CO2, CO 3, CO 4	Explain in detail the regulation of hormones released from adrenal cortex	Cognitive/comprehensions	DK	Kh	Lecture /Concept Map	Written/viva	S	III	
CO4, CO 5	Explain the disorders of adrenal cortex hormones.	Cognitive/comprehensions	MK	Kh	Lecture/PBL	Written/viva	S	III	

CO2, CO 3, CO 4	Describe the Physiological anatomy of pancreas	Cognitive/c omprehens ions	MK	Kh	Lecture	Written/viva	F	III	
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	(pancreas).								
CO2, CO 3, CO 4	Outline the endocrine hormones secreted from pancreas	Cognitive/R ecall	MK	K	Lecture	Written/viva	F &S	III	
CO2, CO 3, CO 4	Describe the synthesis, regulation and functions of insulin and glucagon	Cognitive/c omprehens ions	MK	KH	Lecture	Written/viva	F &S	III	
CO2, CO 3, CO 4	Discuss the pathophysiology, signs and symptoms of diabetes Mellitus	Cognitive/c omprehens ions	MK	Kh	Lecture/PBL	Written/viva	F&S	III	

CO2, CO 3, CO 4	Describe glucose tolerance test and interpretation of the results	Cognitive/comprehensions	MK	Kh	Lecture/Tutorials	Written/viva	S	III	
CO2, CO 3	Describe the physiological anatomy of Ghudda sa'atariyah (thymus) and ghhudda-e-sanobariyah (pineal	Cognitive/comprehensions	DK	Kh	Symposium	Written/viva	S	III	

	gland)								
CO2, CO 3	Describe secretions of thymus and pineal gland and their functions	Cognitive/comprehensions	NK	Kh	Tutorials	Written/viva	S	III	
CO2, CO 4	Discuss the physiology of Circadian rhythm	Cognitive/comprehensions	NK	KH	Lecture/small group discussion	Written/viva	S	III	

Topic 7- Nizam-e-Tauleed (Reproductive system) (Lecture:- 14hours, Non lecture 10hours)

CO2, CO 3, CO 4	Describe sex differentiation & determination	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	S	III	
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CO2, CO 3, CO 4	Discuss the role of gametes & chromosomes in sex differentiation	Cognitive/comprehensions	MK	KH	Small group discussion	Written/viva	S	III	
CO2, CO 3, CO 4	Describe gonadal differentiation, and psychological differentiation	Cognitive/comprehensions	NK	KH	Small group discussion	Written/viva	S	III	
CO2 ,CO 4, CO 5	Outline chromosomal abnormalities, hormonal abnormalities	Cognitive/Recall	NK	KH	Symposium	Written/viva	S	III	

	and their features (sexlinked)								
CO2, CO 3, CO 4	Describe and discuss bulooghat (puberty): onset, progression and stages.	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	III	

CO2, CO 3, CO 4	Summarize physical & hormonal changes during puberty	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	III	
CO5	Outline disorders of puberty	Cognitive/Recall	DK	K	Small group discussion	Written/viva	F&S	III	
CO2, CO 3, CO 4	Describe the physiological anatomy of nizam-e-tauleed mardana (male reproductive system)	Cognitive/comprehensions	DK	Kh	Lecture	Written/viva	F&S	III	
CO2, CO 3	Describe and Outline the steps	Cognitive/Recall	MK	KH	Lecture/Concept Map	Written/viva	F&S	III	

	involved in spermatogenesis								
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CO2, CO 3, CO 4	Describe the structure of rasilat-i-khusya (testosterone), and describe its synthesis, metabolism, transport and actions.	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	III	
CO2, CO 3, CO 4	Describe the regulation of testosterone secretion	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	III	
CO5	List & discuss the abnormal conditions like Cryptorchidism , Hypo & hypergonadism	Cognitive/Recall	NK	K	Small group discussion	Written/viva	F&S	III	
CO2, CO 3, CO 4	Describe the physiological anatomy of ghudda-e-madhi	Cognitive/comprehensions	MK	KH	Self-directed learning	Written/viva	F&S	III	

	(prostate) and seminal vesicles.								
CO2, CO 3, CO 4	Describe the role of prostate and seminal vesicles in reproduction.	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	III	
CO2, CO 3, CO 4, CO 6	Describe the composition of semen	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	III	
CO2, CO 3, CO 4	Describe the cause, mechanism of erection and ejaculation	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	III	
CO2, CO 3, CO 4	Describe physiological anatomy of nizam-e-tawleed zanana (female reproductive system)	Cognitive/comprehensions	MK	KH	Lecture/video clip	Written/viva	F&S	III	
CO2, CO 3, CO 4	Describe the menstrual cycle.	Cognitive/comprehensions	MK	KH	Small group teachings	Written/viva	F&S	III	

CO2,	Describe the	Cognitive/c	MK	KH	Lecture/ small	Written/viva	F&S	III	
CO 3, CO 4	changes that occur during the menstrual cycle.	omprehensions			group teachings				
CO2, CO 3, CO 4	Describe physiological anatomy and functions of ovaries	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	III	
CO2, CO 3, CO 4	Describe the regulation of ovarian functions	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	III	
CO2, CO 3, CO 4	Discuss the general structures and functions of rasila muwallid-i-bayda (oestrogen) and rasila mu'in alhaml (progesterone)	Cognitive/comprehensions	MK	KH	Lecture/small group discussion	Written/viva	F&S	III	
CO2, CO 3, CO 4	Describe ibadha (ovulation).	Cognitive/comprehensions	MK	KH	Lecture/video clip	Written/viva	F&S	III	

CO2, CO 3, CO 4	Describe the baar-aawari (fertilization),	Cognitive/c omprehens ions	MK	KH	Lecture video clip	Written/viva	F&S	III	
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	isteqrar-e-hamal (implantation) and placenta formation								
CO2, CO 3, CO 4	Describe the placenta and its functions	Cognitive/c omprehens ions	MK	KH	Lecture	Written/viva	F&S	III	
CO2, CO 3, CO 4	Enumerate the hormones secreted from placenta and their functions	Cognitive/R ecall	MK	K	Lecture	Written/viva	F&S	III	
CO2, CO 3, CO 4	Describe the physical and hormonal changes that accompany pregnancy	Cognitive/c omprehens ions	MK	KH	Lecture/concept map	Written/viva	F&S	III	

CO2, CO 3, CO 4	Describe mechanism and Control of wiladat (parturition)	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	III	
CO2, CO 3, CO 4	Describe physiology of ilban/ amal-e-	Cognitive/comprehensions	MK	Kh	Symposium	Written/viva	F&S	III	

	raza'at (lactation)								
CO2, CO 3, CO 4	Describe functional anatomy of mammary gland	Cognitive/comprehensions	MK	Kh	Small group discussions	Written/viva	F&S	III	
CO2, CO 3, CO 4	Describe breast development and milk production.	Cognitive/comprehensions	MK	Kh	Small group Discussion	Written/viva	F&S	III	
CO2, CO 3, CO 4	Define Iyas (menopause)	Cognitive/Recall	MK	K	Lecture	Written/viva	F&S	III	
CO2, CO 3, CO 4	Explain the hormonal Changes and their effects during perimenopause and menopause	Cognitive/comprehensions	MK	KH	Lecture	Written/viva	F&S	III	

CO2, CO 3, CO 4	Enumerate physiological effects of perimenopause and menopause	Cognitive/R ecall	MK	K	Lecture /Project Works	Written/viva	F&S	III	
CO2, CO 3, CO 4	Describe quwwate tanassulliya in general	Cognitive/c omprehens ions	NK	KH	Lecture/small group discussion	Written/viva	S	III	
CO2, CO 3, CO 4	Unani concept of tawleed-e-mani wa tawleed-e- aaza	Cognitive/c omprehens ions	MK	KH	Self-directed learning	Written/viva	S	III	

Table 4: Learning objectives of Manafeul Aza UNIUG-MZ (Practical)

A4 Course outcome	B4 Learning Objective (At the end of the Practical/ Clinic the Students should be able to)	C4 Domain	D4 Must to know/desire to know/Nice to know	E4 Level Does/shows / Knows how/ Knows	F4 T-L method	G4 Assessment	H4 Formative /summative	I4 Term	J4 Integr ation
Practical 1- General Physiology (Non Lecture:- 76 hours)									
CO9	Describe & demonstrate Working & usage of stethoscope	Cognitive/Psychomotor	MK	S	Demonstration/practical	Written/viva	F&S	I	
CO9	DESCRIBE & demonstrate the use of Light Microscope	Cognitive/Psychomotor	MK	S	Demonstration/practical	Written/viva	F&S	I	
CO9	Demonstrate& explain various tissue slides by microscope	Cognitive/Psychomotor	MK	S	Demonstration/practical	Written/viva	F&S	I	
CO9	Measure Body temperature by thermometer.	Psychomotor	MK	S	Demonstration/practical/ hands on training	Written/viva	F&S	I	
Practical 2- Respiratory System (Non Lecture:- 20 hours)									

CO9	Describe, record & analyze respiratory sounds	Psychomotor	MK	S	Demonstration/practical	Written/viva	F&S	I	
CO9	Describe, Measure, record & analyze the lung volume capacities	Cognitive/Psychomotor	MK	S	Demonstration/practical	Written/viva	F&S	I	
Practical 3- Digestive System (Non Lecture:- 12 hours)									
CO9	Record and analyse Bowel sounds	Psychomotor	MK	S	Demonstration/practical	Written/viva	F&S	I	
CO9	Measure BMI	Psychomotor	MK	S	Demonstration/practical	Written/viva	F&S	I	
Practical 4- Haematology (Non Lecture:- 70 hours)									
CO9	Demonstrate Collection of blood samples	Psychomotor	MK	S	Demonstration/practical	Written/viva	F&S	II	

CO9	Collect blood serum and plasma	Psychomotor	MK	S	Demonstration/ practical/ hands on training	Written/viva	F&S	II	
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CO9	Prepare blood film	Psychomotor	MK	S	Demonstration/ practical/ hands on training	Written/viva	F&S	II	
CO9	Identify various blood cells under microscope	Psychomotor	MK	S	Demonstration/ practical	Written/viva	F&S	II	
CO9	Determine Differential Leucocyte Count	Psychomotor	MK	S	Demonstration/ practical/ hands on training	Written/viva / Practical Performance	F&S	II	
CO9	Estimate Haemoglobin	Psychomotor	MK	S	Demonstration/ practical/ hands on training	Written/viva / Practical Performance	F&S	II	
CO9	Determine Blood Groups	Psychomotor	MK	S	Demonstration/ practical	Written/viva / Practical Performance	F&S	II	
CO9	Determine Bleeding and Clotting time	Psychomotor	MK	S	Demonstration/ practical/ hands on training	Written/viva / Practical Performance	F&S	II	

CO9	Demonstrate Haemocytometry (Diluting pipettes and Neubauer's chamber)	Psychomotor	MK	S	Demonstration/practical	Written/viva	F&S	II	
CO9	Determine total	Psychomotor	MK	S	Demonstration/practical	Written/viva	F&S	II	

	RBC Count								
CO9	Determine total WBC Count	Psychomotor	MK	S	Demonstration/practical	Written/viva / Practical Performance	F&S	II	
CO9	Demonstrate Packed Cell Volume and Erythrocyte Sedimentation Rate	Psychomotor	MK	S	Demonstration/practical	Written/viva	F&S	II	
CO9	Demonstrate the Blood Indices	Psychomotor	DK	S	Demonstration/practical	Written/viva	F&S	II	

Practical 5- Urology (Non Lecture:- 36 hours)

CO9	Perform physical and microscopic examination of urine	Psychomotor	MK	S	Demonstration/ hands on training	Written/viva / Practical Performance	F&S	II	
CO9	Perform Qualitative analysis of sugar in urine (benedict's method)	Psychomotor	MK	S	Demonstration/ hands on training	Written/viva / Practical Performance	F&S	II	
CO9	Perform	Psychomotor	MK	S	Demonstration/	Written/viva	F&S	II	
	Qualitative analysis of protein in urine	or			practical				
CO9	Estimate Albumin in urine	Psychomotor	MK	S	Demonstration/ practical/	Written/viva / Practical Performance	F&S	II	
Practical 6- Cardio vascular system (Non Lecture:- 32 hours)									
CO9	Perform palpation of radial pulse	Psychomotor	MK	S	hands on training	Written/viva	F&S	III	

CO9	Describe, Measure & record arterial Blood Pressure in different physiological conditions.	Cognitive/Psychomotor	MK	S	Demonstration/hands on training	Written/viva	F&S	III	
CO9	Describe, discuss & record Normal Electrocardiogram and interpret rhythm, heart rate and cardiac axis.	Cognitive/	MK	S	Demonstration/practical/Early Clinical Exposure	Written/viva	F&S	III	
CO9	Describe, record & analyze the Heart sounds	Cognitive/Psychomotor	MK	S	Demonstration/practical	Written/viva	F&S	III	
Practical 7- Nervous system (Non Lecture:- 20 hours)									
CO9	Demonstrate use of E.E.G machine	Cognitive/Psychomotor	MK	S	Demonstration/practical	Written/viva	F&S	II	
CO9	Perform nerve conduction test	Psychomotor	DK	S	Demonstration/hands on training	Written/viva	F&S	II	

Practical 8- Special senses (Non Lecture:- 14 hours)									
CO9	Measure visual field by perimetry	Psychomotor	MK	S	Demonstration/practical	Written/viva	F&S	III	
CO9	Measure visual acuity	Psychomotor	DK	S	Demonstration/practicals/Early Clinical Exposure	Written/viva	F&S	III	
CO9	Test color vision by ishihara chart	Psychomotor	MK	S	Demonstration/practicals/	Written/viva	F&S	III	
CO9	Test bone and air conduction using tuning forks	Psychomotor	MK	S	Demonstration/practicals	Written/viva	F&S	III	

Table 5- Non Lecture Activities of Manafeul Aza UNIUG-MZ

	Sr No	List non lecture Teaching-Learning methods	No of Activities
A		Activities in classroom	
	1	symposium	20
	2	Seminar	02
	3	Early Clinical Exposure	02
	4	Project Work	03
	5	Problem Based Learning	09
	6	Discussion / small Group discussion	29
	7	Tutorials	09
	8	Small group teachings	08
	9	Educational videos	10
	10	Animation clips	04
	11	Role play	02
	12	Concept maps	08
	13	Demonstration	04
	14	Self-directed learnings	08
	15	Activity Learning	01
	16	Simulations	01
		Subtotal - 120	
B		Activities in practical	280
		Total	400

Table 6: Assessment Summary

6 A - Number of papers and Marks Distribution

S.No.	Subject	Papers	Theory	Practical or Clinical Assessment					Grand Total
				Practical or Clinical	Viva	Electives	IA	Total	

1	Manafeul Aza (Human Physiology) Paper – I Paper - II	2	200	100	20	10	20	150	350
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6. B - Scheme of Assessment (formative and Summative)

SR.NO.	PROFESSIONAL COURSE	DURATION OF PROFESSIONAL COURSE		
		First Term (1-6 Months)	Second Term (7-12 Months)	Third Term (13-18 Months)
1	First	3 PA & First TT	3 PA & Second TT	3 PA & UE

PA: Periodical Assessment; TT: Term Test; UE: University Examinations

6 C - Calculation Method for internal assessment Marks (20 Marks)

TERM	PERIODICAL ASSESSMENT				TERM TEST	TERM ASSESSMENT	
	A	B	C	D	E	F	G
		1 (20)	2 (20)	3 (20)	Average (A+B+C/3) 20	Term Test (MCQ+SAQ+LAQ And Practical (Converted to 20)	Sub Total
FIRST						D+E	D+E /2
SECOND						D+E	D+E /2
THIRD					NIL	D	D
Final IA	Average of Three Term Assessment Marks as Shown in 'G' Column						

6 D - Evaluation Methods for Periodical Assessment

S. No.	Evaluation Methods
1.	Practical / Clinical Performance
2.	Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
3.	Open Book Test (Problem Based)
4.	Summary Writing (Research Papers/ Samhitas)
5.	Class Presentations; Work Book Maintenance
6.	Problem Based Assignment

7.	Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)
8.	Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).
9.	Small Project
10.	Other activities explained in Table 3 Column G3 as per indicated term.

6 E - Question Paper Pattern

I PROFESSIONAL BUMS EXAMINATIONS

UNIUG-MZ

PAPER-I

Time: 3 Hours Maximum Marks: 100

INSTRUCTIONS: All questions compulsory

		Number of Questions	Marks per question	Total Marks
Q 1	Multiple Choice Questions (MCQ)	20	1	20
Q 2	Short answer questions (SAQ)	8	5	40
Q 3	Long answer questions (LAQ)	4	10	40
				100

PAPER-II

Time: 3 Hours Maximum Marks: 100

INSTRUCTIONS: All questions compulsory

		Number of Questions	Marks per question	Total Marks
Q 1	Multiple Choice Questions (MCQ)	20	1	20
Q 2	Short answer questions (SAQ)	8	5	40
Q 3	Long answer questions (LAQ)	4	10	40
				100

6 F(1) - Distribution of Theory examination Paper-I

	A List of Topics	B Term	C Marks	D Type of Questions "Yes" can be asked. "No" should not be asked.		
				MCQ (1 Mark)	SAQ (5 Marks)	LAQ (10 Marks)
1	Umoomi Manafeul Aza (General physiology)	I	10	5	1	0
	Al-istitbab (Homeostasis) الامتتباب			Yes	Yes	No
	Transport across cell membrane نقل ال بين الخش الخى ~			Yes	Yes	No
	Action potential عمل ج هلف			Yes	Yes	No
	Muscle physiology فع لى الاغضاء			Yes	Yes	No
	Macromolecules جزى كى روى سال ماتكى ر			Yes	Yes	No
	Protein synthesis پى ط ش ل ح م ن			Yes	Yes	No
	Acid-base لتوازن ل ا ح م ض ي الق و ي balance			Yes	Yes	No
	Water balance التوازن ل ماء			Yes	Yes	No
2	Study of Khulia and Insaja (Cytology and Histology)	I	15	5	0	1
	Qhulia ki khurd beeni sakht-o-Afaal, (Brief discussion and introduction of cytology) خ لى كى خور بى نى س ا خ ت و ا ف ع ال			Yes	No	Yes
	Tareef –e- insaja (definition) ت ع ر ف ف ن س ج			Yes	No	Yes
	Aqsaam –e- insaja (types) اق س ام س ج			Yes	No	Yes
	Insaja ki Khurd beeni sakht ka phailao-waafaal, (distribution and function of tissues), ن اس ج كى خور بى نى س ا خ ت ك ل ه ل ا و و ا ف ع ال			Yes	No	Yes
	Nassej-e-bushra (epithelial tissue) ن س رى ب ش رى			Yes	No	Yes
	Naseej-e-wasil (connective tissue), ن س رى ج و ا ص ل			Yes	No	Yes
	Nassj-e-azlee (muscular tissue) ن س رى ج ع م ن ل			Yes	No	Yes
	Naseeje asabi (nervous tissue). ن س رى ج ص بى			Yes	No	Yes
3	Khoon wa Nizam-e-Damwi (Blood & Haemopoietic System) خون و ن ظ ام دم وى	II	30	10	2	1

	Khoon ki tareef (definition of blood), Ajza (constituents), Afaal (functions), Lazoojat aur hajam (viscosity and volume). خون کی تعریف، اجزاء، افعال، لزوجت اور حجم			Yes	Yes	Yes
	Maiyat-ud-dum (blood plasma): Ajza (constituents), Mavaad-e-lahmiya, aur afaal (plasma proteins and their functions) مادہ اجزاء، موٹل جہہ اور لاکہ طیف افعال				Yes	Yes

	Kurriyat-e-hamra (RBC): Saqht, ajza-e-tarkeebi (structure, composition), Paidaish (formation), Numu (development), aur Anjam (fate), Majmooyee taadaat (total count), Miqdaar ki takhmeen ke tareeqe (methods of estimation), Aur unke feliyati iqhtilaaf (& physiological variations) تعمیراتی اجزاء، اجزائی ساخت، پیدائش، نمو اور انجام، مجموعی تعداد، قیاس کی تخمینہ کے طریقے اور عملیاتی اختلافات			Yes	Yes	Yes
	Hamratuddam (haemoglobin) ke Ajza- etarkeeb (composition), Aqsaam (varieties), Khwaas (properties), Miqdaar ki takhmeen ke tareeqe (method of estimation), Aur afaal (and functions) حمہ لہ دم کے اجزائی، انواع، خصوصیات، قیاس کی تخمینہ کے طریقے اور افعال			Yes	Yes	Yes
	Kurriyat-e-baiza (WBC) ki Saqht (structure), Aqsaam (types), Paidaish (formation), Afaal (functions), Aur inke baahami tanasub (& their differential count) تعمیراتی اجزاء، انواع، پیدائش، افعال، اور ان کے باہمی تناسب اور ان کے مختلف اقسام کی تعداد			Yes	Yes	Yes
	Aqrasedamviya (platelets) ki Saqht (structure), Paidaish (formation) & Afaal (functions) اقراص دموی کی ساخت، پیدائش اور افعال			Yes	Yes	Yes
	Injimaduddam (coagulation of blood) ki Tareef (definition), Awamil e injimaduddam (coagulation factors), Waqfa-e-jiryanuddam (bleeding time), Waqfa-e-injimaduddam (clotting time) aur unki takhmeen (and their estimation) لہ دم کی تجریر، عوامل، لہ دم کی جریں ان لہ دم وقفہ، لہ دم کی جریں اور ان کی تخمینہ			Yes	Yes	Yes

	Khoon ki girohbandi (Blood Groups) خون کی گروہ بیندی			Yes	Yes	Yes
	Intiqaluddam (blood Transfusion) & Blood Banks منتقلی ال دم			Yes	Yes	Yes
4	Nizam-e-Urooq-e-Lymphavia aur Shabki-o-Bashree Baatini (Lymphatic & Reticulo-endothelial system) نظام عروق لیمفاویہ اور شبکیہ ریٹیکولیٹو اینڈوٹیلیال سسٹم	I	5	0	1	0
	Rutubat-e-limfavia ki paidaish aur tarkeeb (formation and composition of lymph) رطوبت لیمفاویہ کی پیداوار اور ترکیب			No	Yes	No
	Rutubat-e-limfavia ka dauran (lymphatic channels and lymphatic drainage)			No	Yes	No

	رطوبت لیمفاویہ کا دوران					
	Ghudood-e- limfavia (lymph glands) غدود لیمفاویہ			No	Yes	No
	Nizam-e-shabkiya mubtina ki tamheed aur afaal (introduction to reticulo-endothelial system, and its functions) نظام شبکیہ کی تعریف اور افعال			No	Yes	No
	Tihaal aur iske afaal (spleen & its functions) طحال اور اس کے افعال			No	Yes	No
5	Nizam-e-Dauran-e-Khoon (Circulatory system) نظام دوران خون	III	20	0	2	1
	Tareef(introduction) تعریف			No	Yes	No
	Samamaat-e-qalb aur inke afaal (valves of heart and their actions) صمامات قلب اور ان کے افعال			No	Yes	Yes
	Qalb ke makhsos itsaali ansaja (special junctional tissues), قلب کے مخصوص نٹھرائی ناسجہ			No	Yes	Yes
	Azla-e-qalb ki khusoosiyat (properties of cardiac muscles) عضلات قلب کی خصوصیات			No	Yes	Yes
	Daura-e-qalbi (cardiac cycle) دور قلبی			No	Yes	Yes
	Aswaat-e-qalb (heart sounds) طس و انتقل قلب			No	Yes	Yes
	Suqoot-e-qalb (heart block) سقوت قلب			No	Yes	Yes
	Aasaab-e-qalb (nerves of the heart), اعصاب قلب			No	Yes	Yes
	Mrakaz-e-qalb aur iske afaal (cardiac centre & its function) مرکز قلب اور اس کے افعال			No	Yes	Yes
	Barqi qalb nigari (electro-cardiograph) برقی قلب نگاری			No	Yes	Yes

	Fisharruddum aur iske feliyati avamil (blood pressure and its physiological control) فش ارلدم اور کلسے ف عملاتی عوامل			No	Yes	Yes
6	Hayateen (Vitamins) حیاتیات	II	10	0	2	0
	Hayateen ki tareef (definition) حیاتیات کی تعریف			No	Yes	No
	Aqsaam (types) اقسام			No	Yes	No
	Miqdar khurak (daily requirement) مقدار خوراک			No	Yes	No
	Afaal (functions) افعال			No	Yes	No
7	Istihala (Metabolism) استحالہ	III	10	0	0	1
	Istehala ki tareef (introduction to metabolism) استحالہ کی تعریف			No	No	Yes
	Nashasta ka istehala (metabolism of carbohydrate) نشیات کی استحالہ			No	No	Yes
	Shamiyat ka istehala (metabolism of lipids) شحمیاتی استحالہ			No	No	Yes
	Humooz-e-shorain ka istehala (metabolism of amino acids) حموض شوری کی استحالہ			No	No	Yes
	Madaniyat aur paani ka istehala (mineral and water metabolism). معدنیات اور پانی کی استحالہ			No	No	Yes

6 F(2) - Distribution of Theory examination Paper-II

	A List of Topics	B Term	C Marks	D Type of Questions "Yes" can be asked. "No" should not be asked.		
				MCQ (1 Mark)	SAQ (5 Marks)	LAQ (10 Marks)
1.	Nizam-e-Hazm (Digestive system) نظام ہضم	I	15	0	1	1
	Tamheed-e-nizam-e-hazm (introduction of digestive system) تمہی دن نظام ہضم			No	Yes	Yes
	Khurd beeni sakht of ghudood-e-luabiya (histological structure of salivary glands), luab-e-dahan ki tarkeeb (composition of saliva) غدد لعی کی خورہیں سی ساخت لعیاب دہن کی ترکیب			No	Yes	Yes
	Tarssho aur afaal (secretion of saliva and functions) لعیاب دن کنکٹار شح اور افعال			No	Yes	Yes
	Rutubat-e-maaddi (gastric juice) رطوبات معدی			No	Yes	Yes

	Rutubat-e-mayvi, aur rutubat-e-safravi ki tarkeeb, tarassho aur afaal (composition of succus entericus and bile secretion and their functions) روہبات معوی اور بیلٹو صفر اوی کی ترکیب و ترشح اور افعال			No	Yes	Yes
	Majra-e-ghizai ke harkat aur unke afaal (movements of alimentary canal and their functions) مچری غائی کی حرکات اور لکے افعال			No	Yes	Yes
	Fuzla ki paidaish-o-iqhraj (formation of faeces and defecation) فطیہ کی پیدائش و اخراج			No	Yes	Yes
	Jigar ki saaqht-o-afaal, (structure and & functions of liver) گج کی ساخت و افعال			No	Yes	Yes
	hazm-e-nishashta (digestion of carbohydrate), ہضم نشیسات			No	Yes	Yes
	hazm-e- shorain (digestion of protein) ہضم شورین			No	Yes	Yes
	andhazm-e-shaham (digestion of lipids) ہضم شحم			No	Yes	Yes
	paani ka injezab (absorption of water) پانی کا لچذاب			No	Yes	Yes
2.	Nizam-e-Tanaffus (Respiratory system) نظام ن	I	15	0	1	1

	تنفس					
	Mukhtalif tanaffussi aaza ki tamheed (introduction of respiratory system/organs) مختلف تنفسی اجزاء کی تہمید			No	Yes	Yes
	Aaza –i- tanaffys ki Khurd beeni sakht (histological structure) اجزائے تنفس کی خورہنی ساخت			No	Yes	Yes
	Uzlaat-e-tanaffuss aur unke afaal (respiratory muscles & functions of respiratory system/organs) عضلات تنفس اور لکے افعال			No	Yes	Yes
	Oxygen aur carbon di oxide ki muntaqeeli (transport of oxygen & carbon dioxide) کسری جن اور کاربن ڈائی آکسائیڈ کی منتقلی			No	Yes	Yes
	Riya aur insaja may gason ka tabadila (gaseous exchange in lungs and tissues) ریہ اور انساجہ میں گیسوں کا تبادلہ			No	Yes	Yes
	Tanaffuss ke marakiz (centers of respiration) تنفس کے مرکز			No	Yes	Yes

	Masnooi tanaffuss aur inke mukhtalif tareeqe (artificial respiration and its methods) صناعی تنفس اور ان کے مختلف طریقے			No	Yes	Yes
	Jasamat-e-reviya (pulmonary volume) جسماتِ ریویا			No	Yes	Yes
	Waqaat-e-reviya (pulmonary capacities) وقعاتِ ریویا			No	Yes	Yes
	Usre tanaffuss (dyspnoea) عسر تنفس			No	Yes	Yes
	Qillat-e-baad (anoxia) قلیل تباد			No	Yes	Yes
	Dushwaar-e-tanaffuss (apnoea) دشوار تنفس			No	Yes	Yes
	Izdiyad-e-tanaffuss (hypercapnia) زادی اتنفس			No	Yes	Yes
	Sat-he-martafa aur gehre paani ke feliyati asraat (physiological effect of high altitude & under water) سطح مرفوع اور گہرے پانی کے فیزیکی اثرات			No	Yes	Yes
3.	Nizam-e-Iqhray (Excretory system) نظام اخراج	II	15	5	2	0
	Kulliyya ki saqht-o-afaal (Structure and function of kidney) کلیہ کی ساخت وفعال			Yes	Yes	No
	Aljihazul mujawiru lilkuabaiba (juxta-glomerular apparatus and renin- angiotensin system) لاجہ ازالہ جگور لہ لکبہ اور نظام وزن و لہ جیٹسن			Yes	Yes	No
	Paidaiash-e- bowl, tarkeeb-e-bowl, aur miqhdar-e-bowl (urine formation, quantity & concentration of urine) پیدائش بول ترکیب بول اور مقدار بول			Yes	Yes	No
	Renal regulation of fluid and electrolytes and acid-base balance			Yes	Yes	No

	توازن کہارل اور توازن حاضری وقلوی پیکلی کی کاردرار					
	iqhray-i- bowl aur iska mechania (micturition and its mechanism) اخراج بول اور اس کا مکانیہ			Yes	Yes	No
	Masana aur uski Kharabiyān (urinary bladder and its abnormalities) مثلاً اور سل کی خرابیاں			Yes	Yes	No
	Artificial kidney, dialysis and renal transplantation صناعی کلیہ، ڈیالیسس اور زرع کلیہ			Yes	Yes	No
	Renal function tests اشجار ووظیفہ اللہی			Yes	Yes	No
	Unani concepts of idrar-e-bowl ادرار بول کا یقینان طبیبی مفہوم			Yes	Yes	No
4.	Nizam-e-jild (Integumentary system) نظام لچہ	II	10	5	1	0

	Jild ki sakht aur afaal (structure and functions of skin) [integument], تھکی ساخت وافعال			Yes	Yes	No
	Paseena (sweat) پھین			Yes	Yes	No
	Hararat-e-badaniya ka tavazun, (regulation of body temperature) حرارت بیانی کتوازن			Yes	Yes	No
	Ghair tabiyyee hararat aur qillate-hararat (abnormal and sub-normal temperature). غیر بطعی حرارت قلت حرارت			Yes	Yes	No
5.	Nizam-e-Aasab (Nervous system) نظام اعصاب	II	15	5	2	0
	Organization of nizam-e-aasab (nervous system) تنظیم منظام اعصاب			Yes	Yes	No
	Naseej-e- asabi (neural tissue) نسیج عصبی			Yes	Yes	No
	Leef-e- asabi (Nerve fibers) لئیف عصبی			Yes	Yes	No
	Mashbak/ittisal (synapse): نصل اللمشبک			Yes	Yes	No
	Asabi mursalat (neurotransmitters) رسالت عصبی			Yes	Yes	No
	Markazi nizam-e- asab (Central nervous system) مکزی منظام اعصاب			Yes	Yes	No
	Assabeel-o shabkiya hissi (Sensory pathways and tracts) السیولوشکی حسی			Yes	Yes	No
	Nizam-e-harkiyah (Motor system) نظام حرکتی			Yes	Yes	No
	Alfailur-rudood (Reflexes) الفلر رودود			Yes	Yes	No
	Muqheeqh uqda-e qaidiyyah (Cerebellum & basal ganglia) مخخ اوخقده قیدی			Yes	Yes	No
	nizame asabi la iradi (Autonomic nervous system) الجللقعصبی الایرادی			Yes	Yes	No
	nuqha (Spinal cord) نخاع			Yes	Yes	No
	maseerutus sailunuqhayi (Cerebero-spinal)			Yes	Yes	No

	fluid) مہیر اللسائل النخاعی					
	Al naum (Physiology of sleep) النوم			Yes	Yes	No
	Waj-o- alam (Physiology of pain) وجع و اللم			Yes	Yes	No
	EEG & nerve tests			Yes	Yes	No
	Unani concept of quwwat-e-nafsaniyyah قوت نفسانی			Yes	Yes	No
	Quwwat-e zaiqah wa shammah (the taste and smell sensation) قوت ذائقہ و شامہ			Yes	Yes	No
	Uzn (Ear) اذن			Yes	Yes	No

	Ghisha-e tabli aur azeematusameiyyah (Tympanic membrane and the ossicular system) غشاء طلی اور عظمیٰ انتلس عی			Yes	Yes	No
	Cochlea قوٹلی			Yes	Yes	No
	Saut (Sound) صوت			Yes	Yes	No
	Mechania-e quwwat-e-saut-e-markazi (Central auditory mechanisms) ہیکلیہ قوت صوت مرکزی			Yes	Yes	No
	Hearing test			Yes	Yes	No
	Eye عی			Yes	Yes	No
	Ratubat-e- ain (Fluid system of the eye) رطبات عین			Yes	Yes	No
	Photochemistry of vision البصی اعراض و قوٹلی			Yes	Yes	No
	Ruyiyat ka mechania (Physiology of vision) رفیتکا ہیکنیہ			Yes	Yes	No
	Harkat-e-ain (Eye movements) حرکات عی			Yes	Yes	No
6.	Nizam-e-ghudood la qanatiyah (Endocrine system)	III	15	5	0	1
	Ghudood-e-la qanatiyah (endocrine gland) غدود لا قناتیہ			Yes	No	Yes
	Tanzeem-e-afraz rasilat (regulation of hormones) تنظی مفراز رسالت			Yes	No	Yes
	Rasilat ka mekaniya-i- amal (Mechanism of action of hormones) رسالتکا ہیکنیہ عمل			Yes	No	Yes
	Rasilat aur istihala-e- kailshium (Hormones and calcium metabolism) رسالت اور رسالت حلہ کی عملی			Yes	No	Yes
	Taht-us-sarir (hypothalamus) تحت الساریر			Yes	No	Yes
	Ghudda nukhamiyah (pituitary gland) غده نخامیہ			Yes	No	Yes
	Rasila-e-namu (growth hormone) رسول نامو			Yes	No	Yes
	Ghudda-e-nukhmiya muaqqhar (posterior pituitary) غده نخامیہ مؤخر			Yes	No	Yes
	Ghudda-e-darqiyyah (thyroid gland) غده قریہ			Yes	No	Yes
	Ghudda-e- kazriyyah (adrenal glands) غده کمزریہ			Yes	No	Yes
	Banqiras (pancreas): بقیراس			Yes	No	Yes
	Ghudda sa'atariyyah (thymus) and ghuddae-sanobariyyah (pineal gland): غده صغریہ اور غده صغریہ			Yes	No	Yes
	Thyroid function tests			Yes	No	Yes
	Endocrine consequences and metabolism			Yes	No	Yes
7.	Nizam-e-tauleed (Reproductive system)	III	15	0	1	1
	Sex differentiation & determination			No	Yes	Yes

	Bulooghat (puberty): بلوغت			No	Yes	Yes
	Nizam-e-tauleed mardana (male reproductive system) نظم و آلد مردانہ			No	Yes	Yes
	Rasila-e-khusya (testosterone) رسیلہ کھسی			No	Yes	Yes
	Ghudda-e-madhi(prostate) غده مذی			No	Yes	Yes
	Nizame tawleed zanana(female reproductive system)) نظم و آلد زنانہ			No	Yes	Yes
	Rasila muwallid-i- bayda (oestrogen) and rasila mu'in al-haml (progesterone): رسیلہ مولدہ و رسیلہ معین حمل			No	Yes	Yes
	Hamal (pregnancy), wiladat (parturition) & ilban / amal-e-raza'at (lactation) و حمل، آلدت و عمل رضاعت			No	Yes	Yes
	Iyas (menopause) آياس			No	Yes	Yes
	Unani concepts of quwwat-e-tanasulliya قوت و آلتسولی کطلبی فہوم			No	Yes	Yes

6 G(1) - Question Paper blueprint Paper I

A Question Sr. No	B Type of Question	C Question Paper Format
Q1	<p>Multiple choice Questions (MCQ)</p> <p>20 Questions</p> <p>1 mark each</p> <p>All compulsory</p> <p>Must know 15 MCQ Desirable to know 3 MCQ Nice to know 2 MCQ</p>	<p>1. Topic number 1</p> <p>2. Topic number 1 3. Topic number 1</p> <p>4. Topic number 1 5. Topic number 1</p> <p>6. Topic number 2 7. Topic number 2</p> <p>8. Topic number 2 9. Topic number 2</p> <p>10. Topic number 2 11. Topic number 3 12. Topic number 3 13. Topic number 3 14. Topic number 3 15. Topic number 3</p>

		<p>16. Topic number 3 17.</p> <p>Topic number 3 18.</p> <p>Topic number 3 19.</p> <p>Topic number 3</p> <p>20. Topic number 3</p>
Q2	<p>Short answer Questions (SAQ) Eight Questions 5 Marks Each All compulsory</p> <p>Must know 7 SAQ Desirable to know 1 SAQ No Questions on Nice to know</p>	<ol style="list-style-type: none"> 1. Topic no. 1 2. Topic no. 3 3. Topic no. 3 4. Topic no. 4 5. Topic no. 5 6. Topic no. 5 7. Topic no. 6 8. Topic no. 6
Q3	<p>Long answer Questions (LAQ) Four Questions 10 marks each All compulsory All questions on must know No Questions on Nice to know and Desirable to know</p>	<ol style="list-style-type: none"> 1. Topic no .2 Topic 2. no 3. 3. Topic no 5. 4. Topic no 7.

6 G(2) - Question Paper blueprint Paper II

A Question Sr. No	B Type of Question	C Question Paper Format
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.Q1	<p>Multiple choice Questions (MCQ)</p> <p>20 Questions</p> <p>1 mark each</p> <p>All compulsory</p> <p>Must know 15 MCQ Desirable to know 3 MCQ Nice to know 2 MCQ</p>	<p>1. Topic number 3 2. Topic number 3 3. Topic number 3 4. Topic number 3 5. Topic number 3 6. Topic number 4 7. Topic number 4 8. Topic number 4 9. Topic number 4 10. Topic number 4 11. Topic number 5 12. Topic number 5 13. Topic number 5 14. Topic number 5</p>
		<p>15. Topic number 5 16. Topic number 6 17. Topic number 6 18. Topic number 6 19. Topic number 6 20. Topic number 6</p>
Q2	<p>Short answer Questions (SAQ)</p> <p>Eight Questions</p> <p>5 Marks Each</p> <p>All compulsory</p> <p>Must know 7 SAQ Desirable to know 1 SAQ No Questions on Nice to know</p>	<p>1. Topic no. 1 2. Topic no. 2 3. Topic no. 3 4. Topic no 3 5. Topic no. 4 6. Topic no. 5 7. Topic no. 5 8. Topic no. 7</p>
Q3	<p>Long answer Questions (LAQ)</p> <p>Four Questions</p> <p>10 marks each</p> <p>All compulsory</p> <p>All questions on must know No Questions on Nice to know and Desirable to know</p>	<p>1. Topic no .1 Topic 2. no 2. 3. Topic no 6. 4. Topic no 7.</p>

6 H - Distribution of Practical Examination

SN	Heads	Marks
1	Practical (Total Marks 100)	
	Spotting : Microscopic Identification of Histological Slides (05 Slides)	25
	Experiment : Urine Examination/Haematology Tests (any 01 Experiment)	20
	Measurements : Blood Pressure/ Spirometry/ Perimetry/Visual Field/ Ishihara Test/ Hearing Conduction Test (any 01 Measurement)	20
	Electrophysiology : ECG/EEG/NCT (any 01 Test)	25
	Record Book	10
2	Viva Voce	20
3	Internal	20
4	Electives	10
Total Marks		150

Table 7. Reference Books/ Resources:

Book		
S. No.	Name of Book	Name of Author
1	Human Physiology	C.C. Chatterjee - Medical Allied Agency
2	Textbook of Medical Physiology	Guyton & Hall - Harcourt Asia & Saunders
3	Essentials of Medical Physiology	Sembulingam - JP
4	Review of Medical Physiology	Ganong - McGraw Hill
5	Medical Physiology	Khurana - Elsevier
6	Physiology	Berne & Levy – Elsevier
7	Manafeul Aza	NCPUL, New Delhi
8	Darsi Manafeul Aza (Blood)	Ghulam Muntaqa
9	Darsi Manafeul Aza (General Physiology)	Ghulam Muntaqa

10	Manafeul Aza (Ghiza, Hazm, Istihala wa Ikhraj)	Iqtidarul Hasan Zaidi
11	Manafeul Aza	Ansari Mohd Yusuf
12	Manafeul Aza	Javed Ahmad Lari
13	Manafeul Aza	Anwaar Ahmad Qureshi

Tareekh-e-tibb

Sl No	Topic	Hrs	Learning content distribution			Weightage
			Must Know	Desirable to know	Nice to know	
TOPIC 1- TAREEKH-E-TIBB AUR ISKI AHMIYAT						
1	Describe Tareekh-e-Tibb.	1 hrs	MK	--	--	10
2	Recognize and explain the importance of Tareekh-e-Tibb.		MK	--	--	
TOPIC 2- FANNE TIBB KI IBTEDA AUR ISKE AWWALEEN MARAKIZ						
3	Explain the history of Medicine in ancient times.	15 min	MK	--	--	
4	Describe fanne tibb ki ibteda aur iske awwaleen marakiz.	15 min	MK	--	--	
5	Explain Babuli wa Aashuri Tibb.	15 min	MK			
6	Describe the fundamental concepts of Babuli wa Aashuri Tibb.	15 min	MK	--	--	
7	Describe the Mode of treatments in Babuli wa Aashuri Tibb.	15 min	MK	--	--	
8	Identify the Source of information for Babuli wa Aashuri Tibb.	15 min	--	DK	--	
9	Explain Misri Tibb.	15 min	MK	--	--	
10	Describe the fundamental concepts of Misri Tibb.	15 min	MK	--	--	
11	Describe the Modes of treatment in Misri Tibb.	15 min	MK	--	--	
12	Identify the Source of information for Misri Tibb.	15 min	--	DK	--	
13	Explain the contents & importance of Papyri.	15 min	--	DK	--	
14	Explain Cheeni Tibb.	15 min	MK	--	--	
15	Describe the fundamental concepts of Cheeni Tibb.	15 min	MK		--	
16	Identify the contributions of Ancient Cheeni Philosophers & Physicians.	15 min	--	DK	--	
17	Describe the special Modes of treatment & modes of	15 min	MK	--	--	

	investigations in Chinese Medicine.					
18	Explain Hindi Tibb/Ayurveda.	15 min	MK	--	--	
19	Describe the fundamental concepts of concepts of	15 min	MK	--	--	
20	Describe the modes of investigation & special modes of treatment used in Ayurveda.	15 min	MK		--	
21	Identify the Source of information for Ayurveda & Important Ayurvedic Physicians.	15 min	MK		--	
22	Explain Qadeem Irani Tibb.	15 min	MK	--	--	
23	Describe the fundamental concepts & Modes of treatment in Qadeem Irani Tibb.	15 min	MK	--	--	
24	Describe the Establishment of Madrasa Jundi Shapur.	15 min	MK			
25	Identify the contributions of Madrasa Jundi Shapur and important physicians associated with it.	15 min	MK	--	--	
26	Explain Unani Tibb.	15 min	MK	--	--	
27	Describe the fundamental concepts & Modes of treatment in Unani Tibb.	15 min	MK	--	--	
TOPIC 3- UNANI TIBB MA QABLE BUQRAT						
29	Describe the Origin of Medicine in Ancient Greece.	15 min	MK	--	--	5
30	Explain the Medical practices of Pre Hippocratic era.	15 min	MK	--	--	
31	Describe Tabeeb-e- awwal, Asqalibiyoos & his temple practice.	15 min	MK	--	--	
TOPIC 4- BUQRAT AUR USKE BAAD KE UNANI ATIBBA						
32	Distinguish between Hippocratic & Post Hippocratic era of Unani Tibb.	15 min	MK	--	--	5
33	Describe the life history of	15	MK	--	--	

	Buqrat	min				
34	Describe the contributions of Buqrat.	15 min	MK	--	--	
35	Describe the life history of Arastu.	15 min	--	DK	--	
36	Describe the philosophies Arastu related to Unani Medicine.	15 min	MK	--	--	
37	Describe the Life history of Herofilooos.	15 min	MK	--	--	
38	Describe the contributions of Herofilooos.	15 min	MK	--	--	
39	Describe the Life history of Erasistratoos.	15 min	MK	--	--	
40	Describe the contributions of Erasistratoos.	30 min	MK	--	--	
41	Explain the importance of Madrasa Askandriya and its contributions.	30 min	MK	--	--	
TOPIC-5 ROOMI TIBB AUR BAZANTINI TIBB						
42	Describe Roomi Tibb and its important aspects.	15 min	MK	--	--	5
43	Describe Bazantini Tibb and famous physician associated with it.	15 min	--	DK	--	
44	Explain life history of Desqooridoos.	15 min	MK	--	--	
45	Describe the contributions of Desqooridoos.	15 min	MK	--	--	
46	Discover the importance of Kitabul Hashaish.	15 min	MK	--	--	
47	Describe the life history of Jalinoos.	15 min	MK	--	--	
48	Describe the contributions of Jalinoos.	15 min	MK	--	--	
49	List important Medical text books of Jalinoos	15 min	MK	--	--	
TOPIC- 6 ARABI TIBB						
50	Explain Tibb in Arab.	15 min	MK	--	--	15
51	Describe the contribution of Arabs in field of Medicine.	15 min	MK	--	--	
52	Differentiate between Pre Islamic & Post Islamic Arabi Tibb.	15 min	MK	--	--	

53	Describe Arabic medicine in Ahd-e- Jahiliyat.	15 min	MK	--	--
54	Discuss the life history & of Haris bin Kilda	15 min	--	DK	--
55	Describe the contributions of Haris bin Kilda.	15 min	MK	--	--
56	Explain the importance of Tibb-e-Nabwi.	15 min	MK	--	--
57	Summarize the important aspects regarding health, disease& treatment in Tibb-e-Nabwi.	15 min	MK	--	--
58	Describe the development of medicine in Umwi daur.	15 min	MK	--	--
59	Discusslife history of Jabir bin Hayyan.	15 min	MK	--	--
60	Describe the contributions of Jabir bin Hayyan.	15 min	MK		
61	Discuss life history & of Khalid bin Yazeed.	15 min	MK		--
62	Describe the contributions of Khalid bin Yazeed.	15 min	MK		--
63	Discuss the Establishment and contributions of Baitul Hikmat in the field of Medicine.	15 min	MK	--	--
64	List translations & compilations done in Baitul Hikmat.	15 min	MK	--	--
65	State the names of famous mutarjimeen of Ahde Abbasi.	15 min	--	DK	--
66	Discuss life history ofYohanna bin Masawayh.	15 min	MK	--	--
67	Describe the contributions of Yohanna bin Masawayh.	15 min	MK	--	--
68	Discuss life history of Hunain bin Ishaq	15 min	MK	--	--
69	Describe the contributions of Hunain bin Ishaq.	15 min	MK	--	--
70	Discusslife history of Sabit bin Qurra.	15 min	--	DK	--
71	Describe the contributions of Sabit bin Qurra.	15 min	MK	--	--
72	Discuss life history of	15	--	DK	--

	Yaqoob bin Ishaq	min				
73	Describe the contributions of Yaqoob bin Ishaq.	15 min	MK		--	
74	Discuss life history of Qusta bin Luqa.	15 min	--	DK	--	
75	Describe the contributions of Qusta bin Luqa.	15 min	MK	--	--	
76	Discuss life history and contributions of Jibrayeel bin Bakhtishu.	15 min	--	--	NK	
77	Describe the arrival of ayurvedic physicians in Baghdad & translations of Ayurvedic text into Arabic.	15 min	--	DK	--	
TOPIC-7- TIBB QUROONE USTA MEIN						
78	Describe life history of Ali bin Rabban Tabri.	15 min	MK	--	--	15
79	Describe the contributions of Ali bin Rabban Tabri.	15 min	MK	--	--	
80	Explain the importance & contents of Firdausul Hikmat fil Tibb.	15 min	MK	--	--	
81	Describe life history of Ahmad bin Mohammad Tabri.	15 min	MK	--	--	
82	Describe the contributions of Ahmad bin Mohammad Tabri.	15 min	MK	--	--	
83	Explain the importance & contents of Moalijat-e-Buqratiya.	15 min	MK	--	--	
84	Describe life history of Mohammad bin Zakariya Razi.	15 min	MK	--	--	
85	Describe the contributions of Mohammad bin Zakariya Razi.	15 min	MK	--	--	
86	Explain the importance & contents of Kitab al Hawi fil Tibb.	15 min	MK	--	--	
87	Describe life history of Ali bin Abbas Majoosi.	15 min	MK	--	--	
88	Describe the contributions of Ali bin Abbas Majoosi.	15 min	MK	--	--	
89	Explain the importance & contents of Kamil us Sana'at	15 min	MK	--	--	

	fil Tibb.				
90	Describe life history of Ibn-e-Sina.	15 min	MK	--	--
91	Describe the contributions of Ibn-e-Sina.	15 min	MK	--	--
92	Explain the importance & contents of Al- Qanoon fil Tibb.	15 min	MK	--	--
93	Describe life history of Abu Mansoor Nooh al Qamri.	15 min	MK	--	--
94	Describe the contributions of Abu Mansoor Nooh al Qamri.	15 min	MK	--	--
95	Explain the importance & contents of Ghana Mana.	15 min	MK	--	--
96	Describe life history of Abu Sahal Masihi.	15 min	MK	--	--
97	Describe the contributions of Abu Sahal. Masihi.	15 min	MK	--	--
98	Explain the importance & contents of Kitabul Mi'at fil Tibb.	15 min	MK	--	--
99	Describe life history of Ismail Jurjani.	15 min	MK	--	--
100	Describe the contributions of Ismail Jurjani.	15 min	MK	--	--
101	Explain the importance & contents of Zakheera Khwarzam Shahi.	15 min	MK	--	--
102	Describe life history of Najeebuddin Samarqandi.	15 min	MK	--	--
103	Describe the contributions of Najeebuddin Samarqandi.	15 min	MK	--	--
104	Explain the importance & contents of Asbab wa Alamat.	15 min	MK	--	--
105	Describe life history of Alauddin Qarshi.	15 min	MK	--	--
103	Describe the contributions of Alauddin Qarshi.	15 min	MK	--	--
107	Describe life history of Nafees bin Awz Kirmani.	15 min	MK	--	--
108	Describe the contributions of Nafees Bin Awz Kirman.	15 min	MK	--	--
109	Describe life history of Ali	15	MK	--	--

	bin Isa Kahhal.	min				
110	Describe the contributions of Ali bin Isa Kahhal.	15 min	--	DK	--	
111	Describe life history of Ibn-e- Hubal Baghdadi.	15 min	--	DK	--	
112	Describe the contributions of Ibn-e-Hubal Baghdadi.	15 min	MK	--	--	
113	Explain the importance & contents of Kitabul Mukhtarat fil Tibb.	15 min	MK	--	--	
114	Describe life history of Ibn-e- Jazla.	15 min	MK	--	--	
115	Describe the contributions of Ibn-e-Jazla.	15 min	--		NK	
116	Describe life history of Ibn-e- Butlan.	15 min	--	DK	--	
117	Describe the contributions of Ibn-e-Butlan.	15 min	MK		--	
118	Describe life history of Abdul Lateef Baghdadi.	15 min	MK		--	
119	Describe the contributions of Abdul Lateef Baghdadi.	15 min	MK	--	--	
120	Describe life history of Kamaluddin Irani	15 min	MK	--	--	
121	Describe the contributions of Kamluddin Irani.	15 min	MK		--	
122	Describe life history of Mahmood Aamli.	15 min	MK		--	
123	Describe the contributions of Mahmood Aamli.	15 min	MK		--	
TOPIC-08- ATIBBA UNDULUS						
124	Describe life history of Ibn-e- Rushd.	15 min	MK	--	--	5
125	Describe the contributions of Ibn-e-Rushd.	15 min	MK	--	--	
126	Explain the importance & contents of Kitabul Kulliyat.	15 min	MK	--	--	
127	Describe life history of Abul Qasim Zahrawi.	15 min	MK	--	--	
128	Describe the contributions of Abul Qasim Zahrawi.	15 min	MK	--	--	
129	Explain the importance & contents of Kitabul Tasreef.	15 min	MK	--	--	
130	Describe life history of Ibn-e- Khateeb.	15 min	--	DK	--	

131	Describe the contributions of Ibn-e- Khateeb.	15 min	MK	--	--	
132	Describe the life history of Ibn-e- Baitar.	15 min	--	DK	--	
133	Describe the contributions of Ibn-e-Baitar.	15 min	MK	--	--	
134	Explain the importance & contents of Jameul Mufradat.	15 min	MK	--	--	
135	Describe life history of Ibn-e- Zuhr.	15 min	--	DK	--	
136	Describe the contributions of Ibn-e-Zuhr.	15 min	MK	--	--	
137	Explain the importance & contents of Kitabul Taiseer.	15 min	MK	--	--	
TOPIC-09 - ATIBBA MISR-O-SHAM						
138	Describe life history of Dawood Antaki.	15 min	MK	--	--	5
139	Describe the contributions of Dawood Antaki.	15 min	MK	--	--	
140	Explain the importance & contents of Kitabul Tazkira.	15 min	--	--	NK	
141	Describe life history of Ibn-al –Haysham.	15 min	MK	--	--	
142	Describe the contributions of Ibn-al- Haysham.	15 min	MK	--	--	
143	Explain the importance & contents of Kitabul Manazir.	15 min	MK	--	--	
144	Describe life history of Ibn-al- Qaf Masihi.	15 min	--	DK	--	
145	Describe the contributions of Ibn-al-Qaf Masihi.	15 min	MK		--	
146	Explain the importance & contents of Kitabul Umda fil Jarahat.	15 min	MK	--	--	
147	Describe life history of Ishaq bin Sulaiman Israili.	15 min	--	--	NK	
148	Describe the contributions of Ishaq bin Sulaiman Israili.	15 min	--	DK	--	
TOPIC-10 - TIBBE UNANI HINDUSTAN ME						
149	Describe life history of Zia Mohammad Masood Rasheed Zangi.	15 min	--	DK	--	15
150	Explain the importance &	15	MK	--	--	

	contents of Majmooa-e-Ziyai.	min			
151	Describe life history of Bahwa bin Khawas Khan.	15 min	--	Dk	--
152	Explain the importance & contents Madinus Shifa Sikander Shahi.	15 min	MK	--	--
153	Describe life history of Hakim Ali Gilani.	15 min	--	DK	--
154	Describe the contributions of Hakim Ali Gilani.	15 min	MK	--	--
155	Describe life history of Hakim Sadra.	15 min	--	--	NK
156	Describe the contributions of Hakim Sadra.	15 min	MK	--	--
157	Describe life history of Hakim Amanullah Khan.	15 min	MK	--	--
158	Describe the contributions of Hakim Amanullah Khan.	15 min	MK	--	--
159	Explain the importance & contents Ganj badawar/Qarabadee n-e-Khan Zamani.	15 min	MK	--	--
160	Describe life history of Hakim Akbar Arzani.	15 min	MK	--	--
161	Describe the contributions of Hakim Akbar Arzani.	15 min	MK	--	--
162	Describe life history of Hakim Hashim Alwi Khan.	15 min	MK	--	--
163	Describe the contributions of Hakim Hashim Alwi Khan.	15 min	MK	--	--
164	Describe life history of Hakim Yusufi.	15 min	--	Dk	--
165	Describe the contributions of Hakim Yusufi.	15 min	MK	--	--
166	Describe life history of Hakim Shareef Khan.	15 min	MK	--	--
167	Describe the contributions of Hakim Shareef Khan.	15 min	MK	--	--
168	Describe life history of Hakim Mir Momin.	15 min	--	DK	--
169	Describe the contributions of Hakim Mir Momin.	15 min	MK	--	--
170	Describe life history of	15	--	DK	--

	Hakim ul mulk Nizamuddin Gilani.	min			
171	Describe the contributions of Hakim ul mulk Nizamuddin Gilani.	15 min	MK	--	--
172	Describe life history of Rustam Jurjani.	15 min	--	DK	--
173	Describe the contributions of Rustam Jurjani.	15 min	MK	--	--
174	Explain the importance and contents of Zakheera Nizamshahi.	15 min	MK	--	--
175	Describe life history of Hakim Wali Gilani.	15 min	--	DK	--
176	Describe the contributions of Hakim Wali Gilani.	15 min	MK	--	--
177	Describe life history of Abul Qasim Farishta.	15 min	--	--	NK
178	Describe the contributions of Abul Qasim Farishta.	15 min	MK	--	--
179	Explain the importance and contents of Akhtiyarat-e-Qasmi.	15 min	MK	--	--
180	Describe life history of Hakim Raza Ali Khan.	15 min	--	DK	--
181	Describe the contributions of Hakim Raza Ali Khan.	15 min	MK	--	--
182	Explain the importance and contents of Yadgar-e-Razai.	15 min	MK	--	--
183	Describe life history of Hakim Shafai Khan.	15 min	--	DK	--
184	Describe the contributions of Hakim Shafai Khan.	15 min	MK	--	--
185	Explain the importance and contents of Ilajul Atfal.	15 min	MK	--	--
186	Describe life history of Shahab Abdul Kareem Nagowri.	15 min	--	DK	--
187	Describe the contributions of Shahab Abdul Kareem Nagowri.	15 min	MK	--	--
188	Explain the importance and contents of Tibb-e-Shahabi.	15 min	MK	--	--
190	Describe life history of Hakim Ajmal Khan.	15 min	MK	--	--

191	Describe the contributions of Hakim Ajmal Khan.	15 min	MK	--	--
192	Describe life history of Hakim Abdul Aziz Lucknawi.	15 min	MK	--	--
193	Describe the contributions of Hakim Abdul Aziz Lucknawi.	15 min	MK	--	--
194	Describe life history of Hakim Azam Khan.	15 min	MK	--	--
195	Describe the contributions of Hakim Azam Khan.	15 min	MK	--	--
196	List the important books of Hakim Azam Khan.	15 min	MK	--	
197	Describe life history of Hakim Abdul Hameed.	15 min	MK	--	
198	Describe the contributions of Hakim Abdul Hameed.	15 min	MK	--	
199	Describe life history of Hakim Abdul Lateef Falsafi.	15 min	MK	--	--
200	Describe the contributions of Hakim Abdul Lateef Falsafi.	15 min	MK		--
201	Describe life history of Hakim Abdul Haleem Lucknawi.	15 min	MK		--
202	Describe the contributions of Hakim Abdul Haleem Lucknawi.	15 min	MK		--
203	Describe life history of Hakim Ahmad Hussain Usmani.	15 min	MK		
204	Describe the contributions of Hakim Ahmad Hussain Usmani.	15 min	MK		
205	Describe life history of Hakim Mohammad Kabiruddin.	15 min	MK		
206	Describe the contributions of Hakim Mohammad Kabiruddin.	15 min	MK		
207	Describe life history of Hakim Ghulam Hasnain Kintoori.	15 min	MK		
208	Describe the contributions of Hakim Ghulam Hasnain Kintoori.	15 min	MK		

209	Describe life history of Hakim Mohammad Ilyas Khan.	15 min	MK	--	--	
210	Describe the contributions Hakim Mohammad Ilyas Khan.	15 min	MK	--	--	
211	Describe life history of Hakim Abdul Hameed Dehlvi.	15 min	MK	--	--	
212	Describe the contributions Hakim Abdul Hameed Dehlvi.	15 min	MK	--	--	
213	Describe life history of Hakim Abdul Razzaq.	15 min	MK	--	--	
214	Describe the contributions Hakim Abdul Razzaq.	15 min	MK	--		
TOPIC-11 - HINDUSTAN KE MASHOOR TIBBI KHANWADE						
215	List the Famous Physicians of Khandan-e- Shareefi.	20 min	MK	--	--	5
216	Discuss the contributions of Khandan-e- Shareefi.	20 min	MK	--	--	
217	List the Famous Physicians of Khandan-e-Azeezi.	20 min	MK	--	--	
218	Discuss the contributions of Khandan-e-Azeezi.	20 min	MK	--	--	
219	List Famous Physicians of Khandan-e- Usmani.	20 min	MK	--	--	
220	Discuss the contributions of Khandan-e- Usmani.	20 min	MK	--	--	
TOPIC-12- HINDUSTAN MEIN TIBB-E-UNANI KE FAROGH MEIN DARSGAHON KA KIRDAR						
221	Describe the historical background of Ayurvedic & Unani Tibbi College, Delhi.	15 min	--	DK	--	5
222	Discuss the importance of Ayurvedic & Unani Tibbi College, Delhi.	15 min	MK	--	--	
223	Describe the historical background of Ajmal Khan Tibbiya College, Aligarh.	15 min	--	DK	--	
224	Discuss the importance of Ajmal Khan Tibbiya College, Aligarh.	15 min	MK	--	--	
225	Describe the historical background of Takmeelut Tibb College, Lucknow.	15 min	--	DK	--	

226	Discuss the importance of Takmeelut Tibb College, Lucknow.	15 min	MK	--	--	
227	Describe the historical background of State Unani Medical College, Prayagraj.	15 min	--	DK	--	
228	Discuss the importance of State Unani Medical College Prayagraj.	15 min	MK	--	--	
229	Describe the historical background of Government Unani Medical College, Patna.	15 min	--	DK	--	
230	Discuss the importance of Government Unani Medical College, Patna.	15 min	MK	--	--	
231	Describe the historical background of Jamia Tibbiya/ School of Unani Medical Education & Research, Jamia Hamdard, New Delhi.	15 min	--	DK	--	
232	Discuss the importance of Jamia Tibbiya/ School of Unani Medical Education & Research, Jamia Hamdard, New Delhi.	15 min	MK	--	--	
233	Describe the historical background of Nizamia Tibbiya College, Hyderabad.	15 min	--	DK	--	
234	Discuss the importance of Nizamia Tibbiya College, Hyderabad.	15 min	MK	--	--	
TOPIC-13.HINDUSTAN MEIN TIBB-E-UNANI KE INTEZAMI WA TEHQIQI SHOBE'JAAT AUR UNKI AHAM KARGUZARIYAN						
235	Describe historical background of AYUSH.	15 min	MK	--	--	5
236	Describe roles and responsibilities of AYUSH.	15 min	MK	--	--	
237	Describe historical background of NCISM.	15 min	MK	--	--	
238	Describe Aims & Objectives of NCISM.	15 min	MK	--	--	
239	Describe historical background of CCRUM.	15 min	MK	--	--	
240	Describe Aims & Objectives	15	MK	--	--	

	of CCRUM.	min				
241	Describe historical background of NIUM.	15 min	MK	--	--	
242	Describe Aims & Objectives of NIUM.	15 min	MK	--	--	
243	Describe historical background of TKDL.	15 min	MK	--	--	
244	Describe Aims & Objectives of TKDL.	15 min	MK	--	--	
TOPIC-14 TIBBI AKHLAQIYAT						
245	Describe fanne Tibb ki Azmat wa Sharafat.	30 min	MK	--	--	5
246	Illustrate the importance and responsibilities of Atibba.	15 min	MK	--	--	
247	Discuss importance of Tibbi Akhlaqiyat.	15 min	MK	--	--	
248	Use Tibbi Akhlaqiyat in medical practice.	15 min	MK	--	-	
249	Describe Muaheda-e-Buqratiya.	15 min	MK	--	--	
250	Discuss historical background of Muaheda-e-Buqratiya.	15 min	MK	--	--	
251	Explain Muaheda-e-Buqratiya ke matan ka Urdu Tarjuma.	15 min	MK	--	--	
252	Describe characteristics of Atibba.	15 min	MK	--	--	
253	Describe characteristics of mutallameen-e-Tibb.	15 min	MK	--	--	
254	Describe zabta-e-Akhlaq constituted by CCIM for physicians.	15 min	MK	--	--	
255	Describe & Use CCIM ka zabta akhlaq in medical practice.	15 min	MK	--	--	
256	Describe Unani Atibba ke Akhtiyarat.	15 min	MK	--	--	
257	Describe Ghair Akhlaqi Tababat.	15 min	MK	--	--	

For Teaching Program
List non lecture Teaching-Learning methods
Tareekh e Tibb

Sl. No	Topics	Non lecture Teaching-Learning methods
1	Recognize and explain the importance of Tareekh-e-Tibb.	Group discussion
2	Describe fanne tibt ki ibteda aur iske awwaleen marakiz.	Tutorial
3	Describe the fundamental concepts of Babuli wa Aashuri Tibb.	Demonstration
4	Describe the fundamental concepts of Misri Tibb.	Demonstration
5	Describe the special Modes of treatment & modes of investigations in Chinese Medicine.	Demonstration
6	Describe the fundamental concepts of concepts of	Demonstration
7	Identify the Source of information for Ayurveda & Important Ayurvedic Physicians.	Tutorial
8	Describe the fundamental concepts & Modes of treatment in Qadeem Irani Tibb.	Demonstration
9	Identify the contributions of Madrasa Jundi Shapur and important physicians associated with it.	Group discussion
10	Describe the fundamental concepts & Modes of treatment in Unani Tibb.	Demonstration
11	Describe the Origin of Medicine in Ancient Greece.	Educational Videos
12	Explain the Medical practices of Pre Hippocratic era.	Group discussion
13	Distinguish between Hippocratic & Post Hippocratic era of Unani Tibb.	Tutorial
14	Describe the contributions of Buqrat.	Educational Videos
15	Describe the philosophies Arastu related to Unani Medicine.	Symposium
16	Describe the contributions of Herofiloos.	Demonstration
17	Describe the contributions of Erasistratoos.	Demonstration
18	Explain the importance of Madrasa Askandriya and its contributions.	Group discussion
19	Discover the importance of Kitabul Hashaish.	Group discussion
20	Describe the life history of Jalinoos.	Educational Videos
21	Describe the contributions of Jalinoos.	Seminar
22	List important Medical text books of Jalinoos	Visit to library
23	Describe the contribution of Arabs in field of Medicine.	Group discussion
24	Summarize the important aspects regarding health, disease& treatment in Tibb-e-Nabwi.	Seminar
25	Describe the contributions of Jabir bin Hayyan.	Demonstration
26	List translations & compilations done in Baitul	Tutorial

	Hikmat.	
27	Describe the contributions of Yohanna bin Masawayh.	Tutorial
28	Describe the contributions of Hunain bin Ishaq.	Demonstration
29	Describe the contributions of Sabit bin Qurra.	Demonstration
30	Describe the arrival of ayurvedic physicians in Baghdad & translations of Ayurvedic text into Arabic.	Educational Videos
31	Describe the contributions of Ali bin Rabban Tabri.	Group discussion
32	Describe the contributions of Ahmad bin Mohammad Tabri.	Demonstration
33	Describe the contributions of Mohammad bin Zakariya Razi.	Demonstration
34	Explain the importance & contents of Kitab al Hawi fil Tibb.	Symposium
35	Describe the contributions of Ali bin Abbas Majoosi.	Group discussion
36	Explain the importance & contents of Kamil us Sana'at fil Tibb.	Visit to library
37	Describe the contributions of Ibn-e-Sina.	Seminar
38	Explain the importance & contents of Al- Qanoon fil Tibb.	Group discussion Visit to library
39	Describe the contributions of Abu Sahal. Masihi.	Group discussion
40	Explain the importance & contents of Kitabul Mi'at fil Tibb.	Symposium
41	Describe the contributions of Ismail Jurjani.	Tutorial
42	Explain the importance & contents of Zakheera Khwarzam Shahi.	Visit to library
43	Describe the contributions of Najeebuddin Samarqandi.	Demonstration
44	Explain the importance & contents of Asbab wa Alamat.	Visit to library
45	Describe the contributions of Alauddin Qarshi.	Group discussion
46	Describe the contributions of Nafees Bin Awz Kirman.	Demonstration
47	Describe the contributions of Ali bin Isa Kahhal.	Demonstration
48	Explain the importance & contents of Kitabul. Mukhtarat fil Tibb.	Demonstration
49	Describe the contributions of Abdul Lateef Baghdadi.	Demonstration
50	Explain the importance & contents of Kitabul Kulliyat.	Demonstration
51	Describe the contributions of Abul Qasim Zahrawi.	Symposium
52	Explain the importance & contents of Kitabul Tasreef.	Demonstration
53	Describe the contributions of Ibn-e-Baitar.	Group discussion

54	Explain the importance & contents of Kitabul Taiseer.	Demonstration
55	Explain the importance & contents of Kitabul Tazkira.	Demonstration
56	Explain the importance & contents of Kitabul Manazir.	Demonstration
57	Explain the importance & contents of Kitabul Umda fil Jarahat.	Demonstration
58	Describe the contributions of Ishaq bin Sulaiman Israili.	Demonstration
59	Describe the contributions of Hakim Ali Gilani.	Group discussion
60	Explain the importance & contents Ganj badawar/Qarabadee n-e-Khan Zamani.	Group discussion
61	Describe the contributions of Hakim Akbar Arzani.	Demonstration
62	Describe the contributions of Hakim Shareef Khan.	Demonstration
63	Describe the contributions of Hakim Mir Momin.	Demonstration
64	Explain the importance and contents of Yadgar-e-Razai.	Demonstration
65	Explain the importance and contents of Ilajul Atfal.	Symposium
66	Describe the contributions of Hakim Ajmal Khan.	Seminar
67	Describe the contributions of Hakim Abdul Aziz Lucknawi.	Group discussion
68	Describe the contributions Hakim Azam Khan.	Group discussion
69	List the important books of Hakim Azam Khan.	Tutorial
70	Describe the contributions Hakim Abdul Lateef Falsafi.	Tutorial
71	Describe the contributions Hakim Mohammad Kabiruddin.	Tutorial
72	Describe the contributions Hakim Ghulam Hasnain Kintoori	Tutorial
73	Describe the contributions Hakim Mohammad Ilyas Khan.	Group discussion
74	Describe the contributions Hakim Abdul Hameed Dehlvi.	Group discussion
75	Discuss the contributions of Khandan-e- Shareefi.	Group discussion
76	Discuss the contributions of Khandan-e-Azeezi.	Group discussion
77	Discuss the contributions of Khandan-e- Usmani.	Group discussion
78	Discuss the importance of Ayurvedic & Unani Tibbi College, Delhi.	Tutorial
79	Discuss the importance of Ajmal Khan Tibbiya College, Aligarh.	Tutorial
80	Discuss the importance of Takmeelut Tibb College, Lucknow.	Tutorial

81	Discuss the importance of State Unani Medical College Prayagraj.	Tutorial
82	Discuss the importance of Government Unani Medical College, Patna.	Tutorial
83	Discuss the importance of Jamia Tibbiya/ School of Unani Medical Education & Research, Jamia Hamdard, New Delhi.	Tutorial
84	Discuss the importance of Nizamia Tibbiya College, Hyderabad.	Tutorial
85	Describe roles and responsibilities of AYUSH.	Demonstration
86	Describe Aims & Objectives of NCISM.	Demonstration
87	Describe Aims & Objectives of CCRUM.	Group discussion
88	Describe Aims & Objectives of NIUM.	Symposium
90	Describe Aims & Objectives of TKDL.	Demonstration
91	Describe fanne Tibb ki Azmat wa Sharafat.	Group discussion
92	Illustrate the importance and responsibilities of Atibba.	Tutorial
93	Discuss importance of Tibbi Akhlaqiyat.	Group discussion
94	Use Tibbi Akhlaqiyat in medical practice.	Symposium
95	Describe Muaheda-e-Buqratiya.	Demonstration
96	Discuss historical background of Muaheda-e-Buqratiya.	Symposium
97	Explain Muaheda-e- Buqratiya ke matan ka Urdu Tarjuma.	Demonstration
98	Describe characteristics of Atibba.	Group discussion
99	Describe characteristics of mutallameen-e-Tibb.	Group discussion
100	Describe zabta-e-Akhlaq constituted by CCIM for physicians.	Symposium
101	Describe & Use CCIM ka zabta akhlaq in medical practice.	Group discussion
102	Describe Unani Atibba ke Akhtiyarat	Group discussion
103	Describe Ghair Akhlaqi Tababat.	Group discussion

Scheme of assessment (Formative and Summative)
TAREEKH E TIBB

Sl.No	PROFESSIONAL COURSE	Topics for Assessment			
		1 st PA Topics (A-1,2,3)	2 nd PA Topics (B-1,2,3)	3 rd PA Topics (C-1,2,3)	Term Test Topics (E)

1	First term (1-6 months)	<p>1. (Tareekh-e-Tibb aur iski Ahmiyat)</p> <p>2. Fanne Tibb ki Ibtida aur iske Awwaleen Marakiz)</p> <p>a) Babili wa Aashuri Tibb b) Misri Tibb c) Cheeni Tibb d) Hindi Tibb/Ayurveda e) Irani Tibb aur Madrasa Jundi Shapur f) Unani Tibb</p>	<p>1.Unani Tibb ma Qabl Buqrat)</p> <p>a) Asqalibiyoos</p> <p>2.Buqrat aur uske baad ke Unani Atibba</p> <p>a) Buqrat b) Arastu c) Herofiloos. d) Erasistratoos e) Madrasa Askandriya</p>	<p>1.Roomi Tibb aur Bazantini Tibb)</p> <p>a) Desqooridoos b) Jalinoos</p> <p>2. (Arabi Tibb)</p> <p>I: Ahad-e-jahiliyat me a) haris bin kildah</p> <p>II: Tibb-e Nabavi</p> <p>III: Dour-e-Umovi a) jabir bin Hayyan b) Khalid bin yazeed</p> <p>IV: Abbasi Dour a) Baitul Hikmat b) Yohanna bin masoya c) Hunain bin ishaq d) Sabit bin Qurrah e) Yaqoob bin ishaq f) Qusta bin louqa g) Jibrayeel bin Bakhteshu h) Bagdad me Hudustani atibba ki aamad aur ayurvedic kitaboun ke tarjume.</p>	<p>1. Fanne tibb ki Ibtida.</p> <p>2. Buqrat aur uske baad ke Unani Atibba</p> <p>3. (Arabi Tibb)</p>
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2	Second Term (7-12 months)	<p>1. Tibb Quroon-e-Usta mein</p> <p>a) Ali Bin Rabban tabari b) Ahmad bin Mohammed tabari c) Zakariya Razi d) Ali ibne Abbas majoosi e) Ibn-e- Seena f) Abu Mansoor Nooh al Qamari g) Abu Sahal Masehi h) Ismail Jurjani i) Najeebuddin Samarqandi j) Alauddin Qarshi k) Nafees bi auz kirmani l) Ali Ibne Isa Kahhal m) Ibn-e-Hubal Bagdadi n) Ibn-e-Jazla o) Ibn-e-Butlan p) Abdul Lateef Bagdhadi q) Kamaluddin Irani r) Mahmood Aamli</p>	<p>1. Atibba Undulus</p> <p>a) Ibn-e-Rushd b) Abul qasim Zuhravi c) Ibn-e-Khateeb d) Ibn-e-Baitaar e) Ibn-e-Zuhr</p> <p>2. Atibba Misr wa sham</p> <p>a) Dawwod Antaki b) Ibn-e-Haysham c) Ibn-al-qaf maseehi d) Ishaq bin sulaiman Israili</p>	<p>1. (Tibb-e-Unani Hindustan main)</p> <p>I: Ahde Tuglaq</p> <p>a) Zia Mohammed rasheed masood zangi</p> <p>II) Ahde Lodhi</p> <p>a) Behwa bin Khawas</p> <p>II: Ahde Mugliya</p> <p>a) Hakeem Ali gilani b) Hakeem Sidra c) Hakeem Amanullah khan d) Hakeem Akbar arzani e) Hakeem Hashim Alvi Khan f) Hakeem Yousufi g) Hakeem Shareef Khan</p> <p>IV: Qutub Shahi Dour</p> <p>a) Hakeem Mir Momin b) Hakeemul Mulk Nizamuddin Gilani</p> <p>V: Nizam Shahi dour</p> <p>a) Rustam Jurjani b) Hakeem Wali Gilani</p> <p>VI: Adil Shahi Dour</p> <p>a) Abul Qasim Farishta</p> <p>VII: Asif Jahi dour</p> <p>a) Hakeem Raza ali khan b) Hakeem Shai Khan</p> <p>VIII: Gujrat ka mashoor tabib</p> <p>a) Shihab Abdul kareen nagori</p> <p>VIII: Bartanvi Ahad</p>	<p>1. Tibb Quroon e Usta me.</p> <p>2. Atibba Undulus</p> <p>3. Tibb-e-Unani Hindustan main</p>
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				<p>f) Hakeem Abdul Hameed Lakhnavi</p> <p>g) Hakeem Ahmed Husain Usmani</p> <p>X: Chand Digar Mashoor Atibba</p> <p>a) Hakeem Mohammed Kabeeruddin</p> <p>b) Hakeem Gulam Husain Kuntori</p> <p>c) Hakeem Mohammed Ilyas Khan</p> <p>d) Hakeem Abdul Hameed Dahlavi</p> <p>e) Hakeem Abdur Razzaq</p>	
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3	Third Term (13-18 months)	<p>1. Hindustan ke Mashoor Tibbi Khanwade)</p> <p>a) Khandan-e-Sharifi b) Khandan-e-Azizi c) Khandan-e-Usmani</p>	<p>1. Hindustan mein Tibb-e-Unani ke Farogh mein Darsgahon ka Kirdar)</p> <p>a) A & U Tibbi College)Karol Bagh Delhi b) Ajmal Khan Tibbiya college Aligadh c) Takmilut Tib College Lakhnow. d) State Unani Medical college Prayagraj. e) Govt Unani Medical college Pathna. f) Jamiya Tibbiya School of Unani Medical education and research jamia Hamdard, New Delhi. g) Nizamia Tibbia college hydrabad</p> <p>2. Hudustan me Tibbe Unani ke Intezami wa tahqeeqi shobajat aur un ki aham karjuzariyan.</p> <p>a) AYUSH b) NCISM c) CCRUM d) NIUM e) TKDL</p>	<p>1. Tibbi Akhlaqiyat</p> <p>a) Fanne Tib ki Azmat wa shrafat b) Tibbi Akhlaqiyat c) Muaheda Buqratiya aur us ka pas manzar d) Muaheda Buqratiya ke matan ka urdu tarjuma e) Atibba ke Ausaf f) Mutallimeen Tib ke Ausaf g) CCIM ke Murattab karda zabitaye Akhlaq baraye tabib h) Unani Atibba ke Ikhtiyarat i) Gair Akhlaqi Tababat</p>	<p>1. Hindustan ke Mashoor Tibbi Khanwade)</p> <p>2. Hudustan me Tibbe Unani ke Intezami wa tahqeeqi shobajat aur un ki aham karjuzariyan.</p> <p>3. Tibbi Akhlaqiyat</p>
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ASSESMENT BLUE PRINT TAREEKH E TIBB

S.NO	TOPICS	MARKS DISTRIBUTION						TOTAL MARKS	
		MUST KNOW	DESIRABLE TO KNOW	NICE TO KNOW	MCQ	SAQ	LAQ		
1	TAREEKH-E-TIBB AUR ISKI AHMIYAT	<ul style="list-style-type: none"> Describe Tareekh-e-Tibb. Recognize and explain the importance of Tareekh-e-Tibb. 				YES	No	YES	10
2	FANNE TIBB KI IBTEDA AUR ISKE AWWALEE N MARAKIZ	<ul style="list-style-type: none"> Explain the history of Medicine in ancient times. Describe fanne tibb ki ibteda aur iske awwaleen marakiz. Explain Babuli wa Aashuri Tibb. Describe the fundamental concepts of Babuli wa Aashuri Tibb. Describe the Mode of treatments in Babuli wa Aashuri Tibb. Explain Misri Tibb. Describe the fundamental concepts of Misri Tibb. Describe the Modes of treatment in Misri Tibb. Explain Cheeni Tibb. Describe the fundamental concepts of Cheeni Tibb. 	<ul style="list-style-type: none"> Identify the Source of information for Babuli wa Aashuri Tibb. Identify the Source of information for Misri Tibb. Explain the contents & importance of Papyri. Identify the contributions of Ancient Cheeni Philosophers & Physicians. 						

		<ul style="list-style-type: none"> • Describe the special Modes of treatment & modes of investigations in Chinese Medicine. • Explain Hindi Tibb/Ayurveda. • Describe the fundamental concepts of Ayurveda. • Describe the modes of investigation & special modes of treatment used in Ayurveda. • Identify the Source of information for Ayurveda & Important Ayurvedic Physicians. • Explain Qadeem Irani Tibb. • Describe the fundamental concepts & Modes of treatment in Qadeem Irani Tibb. • Describe the Establishment of Madrasa Jundi Shapur. • Identify the contributions of Madrasa Jundi Shapur and important physicians associated with it. 						
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		<ul style="list-style-type: none"> • Explain Unani Tibb. • Describe the fundamental concepts & Modes of treatment in Unani Tibb. 						
3	UNANI TIBB MA QABLE BUQRAT	<ul style="list-style-type: none"> • Describe the Origin of Medicine in Ancient Greece. • Explain the Medical practices of Pre Hippocratic era. • Describe Tabeeb-e- awwal, Asqalibiyoos & his temple practice. 			YES	YES	NO	5
4	BUQRAT AUR USKE BAAD KE UNANI ATIBBA	<ul style="list-style-type: none"> • Distinguish between Hippocratic & Post Hippocratic era of Unani Tibb. • Describe the life history of Buqrat • Describe the contributions of Buqrat. • Describe the philosophies Arastu related to Unani Medicine. • Describe the Life history of Herofilos. • Describe the contributions of Herofilos. 	<ul style="list-style-type: none"> • Describe the life history of Arastu. 		YES	YES	NO	5

		<ul style="list-style-type: none"> Describe the Life history of Erasistratoos. Describe the contributions of Erasistratoos. Explain the importance of Madrasa Askandriya and its contributions 						
5	ROOMI TIBB AUR BAZANTINI TIBB	<ul style="list-style-type: none"> Describe Roomi Tibb and its important aspects. Explain life history of Desqooridoos. Describe the contributions of Desqooridoos. Discover the importance of Kitabul Hashaish. Describe the life history of Jalinoos. Describe the contributions of Jalinoos. List important Medical text books of Jalinoos 	<ul style="list-style-type: none"> Describe Bazantini Tibb and famous physician associated with it. 		YES	YES	NO	5
6	ARABI TIBB	<ul style="list-style-type: none"> Explain Tibb in Arab. Describe the contribution of Arabs in field of Medicine. 	<ul style="list-style-type: none"> Discuss the life history & of Haris bin Kilda State the names of famous mutarjimeen of Ahde Abbasi. 	Discuss life history and contributions of Jibrayeel bin Bakhtishu.	YES	YES	YES	15

	<ul style="list-style-type: none"> • Differentiate between Pre Islamic & Post Islamic Arabi Tibb. • Describe Arabic medicine in Ahd-e- Jahiliyat. • Describe the contributions of Haris bin Kilda. • Explain the importance of Tibb-e-Nabwi. • Summarize the important aspects regarding health, disease& treatment in Tibb-e-Nabwi. • Describe the development of medicine in Umwi daur. • Discuss life history of Jabir bin Hayyan. • Describe the contributions of Jabir bin Hayyan. • Discuss life history & of Khalid bin Yazeed. • Describe the contributions of Khalid bin Yazeed. • Discuss the Establishment and 	<ul style="list-style-type: none"> • Discuss life history of Sabit bin Qurra. • Discuss life history of Yaqoob bin Ishaq • Discuss life history of Qusta bin Luqa. • Describe the arrival of ayurvedic physicians in Baghdad & translations of Ayurvedic text into Arabic 					
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		<p>contributions of Baitul Hikmat in the field of Medicine.</p> <ul style="list-style-type: none"> • List translations & compilations done in Baitul Hikmat. • Discuss life history of Yohanna bin Masawayh. • Describe the contributions of Yohanna bin Masawayh. • Discuss life history of Hunain bin Ishaq • Describe the contributions of Hunain bin Ishaq. • Describe the contributions of Sabit bin Qurra. • Describe the contributions of Yaqoob bin Ishaq. • Describe the contributions of Qusta bin Luqa. 						
7	TIBB QUROONE USTA MEIN	<ul style="list-style-type: none"> • Describe life history of Ali bin Rabban Tabri. • Describe the contributions of Ali bin Rabban Tabri. 	<ul style="list-style-type: none"> • Describe the contributions of Ali bin Isa Kahhal. • Describe life history of Ibn-e-Hubal Baghdadi. 	Describe the contributions of Ibn-e-Jazla.	YES	YES	YES	15

		<ul style="list-style-type: none"> • Explain the importance & contents of Firdausul Hikmat fil Tibb. • Describe life history of Ahmad bin Mohammad Tabri. • Describe the contributions of Ahmad bin Mohammad Tabri. • Explain the importance & contents of Moalijat-e-Buqratiya. • Describe life history of Mohammad bin Zakariya Razi. • Describe the contributions of Mohammad bin Zakariya Razi. • Explain the importance & contents of Kitab al Hawi fil Tibb. • Describe life history of Ali bin Abbas Majoosi. • Describe the contributions of Ali bin Abbas Majoosi. • Explain the importance & contents of Kamil us Sana'at fil Tibb. 	<ul style="list-style-type: none"> • Describe life history of Ibn-e-Butlan. 					
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	<ul style="list-style-type: none"> • Describe life history of Ibn-e-Sina. • Describe the contributions of Ibn-e-Sina. • Explain the importance & contents of Al- Qanoon fil Tibb. • Describe life history of Abu Mansoor Nooh al Qamri. • Describe the contributions of Abu Mansoor Nooh al Qamri. • Explain the importance & contents of Ghana Mana. • Describe life history of Abu Sahal Masihi. • Describe the contributions of Abu Sahal. Masihi. • Explain the importance & contents of Kitabul Mi'at fil Tibb. • Describe life history of Ismail Jurjani. • Describe the contributions of Ismail Jurjani. 						
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		<ul style="list-style-type: none"> • Explain the importance & contents of Zakheera Khwarzam Shahi. • Describe life history of Najeebuddin Samarqandi. • Describe the contributions of Najeebuddin Samarqandi. • Explain the importance & contents of Asbab wa Alamat. • Describe life history of Alauddin Qarshi. • Describe the contributions of Alauddin Qarshi. • Describe life history of Nafees bin Awz Kirmani. • Describe the contributions of Nafees Bin Awz Kirman. • Describe life history of Ali bin Isa Kahhal. • Describe the contributions of Ibn-e-Hubal Baghdadi. • Explain the importance & contents of Kitabul. Mukhtarat 						
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		<p>fil Tibb.</p> <ul style="list-style-type: none"> • Describe life history of Ibn-e-Jazla. • Describe the contributions of Ibn-e-Butlan. • Describe life history of Abdul Lateef Baghdadi. • Describe the contributions of Abdul Lateef Baghdadi. • Describe life history of Kamaluddin Irani. • Describe the contributions of Kamluddin Irani. • Describe life history of Mahmood Aamli. • Describe the contributions of Mahmood Aamli. 						
8	ATIBBA UNDULUS	<ul style="list-style-type: none"> • Describe life history of Ibn-e-Rushd. • Describe the contributions of Ibn-e-Rushd. • Explain the importance & contents of Kitabul Kulliyat. 	<ul style="list-style-type: none"> • Describe life history of Ibn-e-Khateeb. • Describe the life history of Ibn-e-Baitar. • Describe life history of Ibn-e-Zuhr. 		YES	YES	NO	5

		<ul style="list-style-type: none"> • Describe life history of Abul Qasim Zahrawi. • Describe the contributions of Abul Qasim Zahrawi. • Explain the importance & contents of Kitabul Tasreef. • Describe life history of Ibne Khateeb • Describe the contributions of • Ibne Khateeb • Describe the contributions of Ibn-e-Baitar. • Explain the importance & contents of Jameul Mufradat. • Describe the contributions of Ibn-e-Zuhr. • Explain the importance & contents of Kitabul Taiseer. 						
9	ATIBBA MISR-O-SHAM	<ul style="list-style-type: none"> • Describe life history of Dawood Antaki. • Describe the contributions of Dawood Antaki. • Describe life history of Ibn-al-Haysham. 	<ul style="list-style-type: none"> • Describe life history of Ibn-al-Qaf Masihi. • Describe the contributions of Ishaq bin Sulaiman Israili. 	<ul style="list-style-type: none"> • Explain the importance & contents of Kitabul Tazkira • Describe life history of Ishaq bin Sulaiman Israili. 	YES	YES	NO	5

		<ul style="list-style-type: none"> • Describe the contributions of Ibn-al- Haysham. • Explain the importance & contents of Kitabul Manazir. • Describe the contributions of Ibn-al-Qaf Masihi. • Explain the importance & contents of Kitabul Umda fil Jarahat. 						
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10	TIBBE UNANI HINDUSTANI ME	<ul style="list-style-type: none"> • Explain the importance & contents of Majmooa-e-Ziyai. • Explain the importance & contents Madinus Shifa Sikander Shahi. • Describe the contributions of Hakim Ali Gilani. • Describe the contributions of Hakim Sadra. • Describe life history of Hakim Amanullah Khan. • Describe the contributions of Hakim Amanullah Khan. • Explain the importance & contents Ganj badawar/Qarabadee n-e-Khan Zamani. • Describe life history of Hakim Akbar Arzani. • Describe the contributions of Hakim Akbar Arzani. • Describe life history of Hakim Hashim Alwi Khan. • Describe the contributions of Hakim Hashim Alwi Khan. 	<ul style="list-style-type: none"> • Describe life history of Zia Mohammad Masood Rasheed Zangi. • Describe life history of Bahwa bin Khawas Khan • Describe life history of Hakim Ali Gilani. • Describe life history of Hakim Yusufi. • Describe life history of Hakim Mir Momin. • Describe life history of Hakim ul mulk Nizamuddin Gilani. • Describe life history of Rustam Jurjani. • Describe life history of Hakim Wali Gilani. • Describe life history of Hakim Raza Ali Khan. • Describe life history of Hakim Shafai Khan. • Describe life history of Shahab Abdul Kareem 	<ul style="list-style-type: none"> • Describe life history of Hakim Sadra • Describe life history of Abul Qasim Farishta. 	YES	YES	YES	15
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		<ul style="list-style-type: none"> • Describe the contributions of Hakim Yusufi. • Describe life history of Hakim Shareef Khan. • Describe the contributions of Hakim Shareef Khan. • Describe the contributions of Hakim Mir Momin. • Describe the contributions of Hakim ul mulk Nizamuddin Gilani. • Describe the contributions of Rustam Jurjani. • Explain the importance and contents of Zakheera Nizamshahi. • Describe the contributions of Hakim Wali Gilani. • Describe the contributions of Abul Qasim Farishta. • Explain the importance and contents of Akhtiyarat-e-Qasmi. 	Nagowri.					
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		<ul style="list-style-type: none"> • Describe the contributions of Hakim Raza Ali Khan. • Explain the importance and contents of Yadgar-e-Razai. • Describe the contributions of Hakim Shafai Khan. • Explain the importance and contents of Ilajul Atfal. • Describe the contributions of Shahab Abdul Kareem Nagowri. • Explain the importance and contents of Tibb-e-Shahabi. • Describe life history of Hakim Ajmal Khan. • Describe the contributions of Hakim Ajmal Khan. • Describe life history of Hakim Abdul Aziz Lucknawi. • Describe the contributions of Hakim Abdul Aziz Lucknawi. • Describe life history of Hakim Azam Khan. 						
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		<ul style="list-style-type: none"> • Describe the contributions Hakim Azam Khan. • List the important books of Hakim Azam Khan. • Describe life history of Hakim Abdul Hameed. • Describe the contributions Hakim Abdul Hameed. • Describe life history of Hakim Abdul Lateef Falsafi. • Describe the contributions Hakim Abdul Lateef Falsafi. • Describe life history of Hakim Abdul Haleem Lucknawi. • Describe the contributions Hakim Abdul Haleem lucknawi. • Describe life history of Hakim Ahmad Hussain Usmani. • Describe the contributions Hakim Ahmad Hussain Usmani. • Describe life history of Hakim Mohammad Kabiruddin. 						
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		<ul style="list-style-type: none"> • Describe the contributions Hakim Mohammad Kabiruddin. • Describe life history of Hakim Ghulam Hasnain Kintoori. • Describe the contributions Hakim Ghulam Hasnain Kintoori • Describe life history of Hakim Mohammad Ilyas Khan. • Describe the contributions Hakim Mohammad Ilyas Khan. • Describe life history of Hakim Abdul Hameed Dehlvi. • Describe the contributions Hakim Abdul Hameed Dehlvi. • Describe life history of Hakim Abdul Razzaq. • Describe the contributions Hakim Abdul Razzaq. 						
11	HINDUSTA	<ul style="list-style-type: none"> • List the Famous Physicians of 			YES	YES	NO	5

	N KE MASHOOR TIBBI KHANWAD E	<p>Khandan-e- Shareefi.</p> <ul style="list-style-type: none"> • Discuss the contributions of Khandan-e- Shareefi. • List the Famous Physicians of Khandan-e-Azeezi. • Discuss the contributions of Khandan-e-Azeezi. • List Famous Physicians of Khandan-e- Usmani. • Discuss the contributions of Khandan-e- Usmani. 						
12	HINDUSTAN MEIN TIBB-E-UNANI KE FAROGH MEIN DARSGAHO N KA KIRDAR	<ul style="list-style-type: none"> • Discuss the importance of Ayurvedic & Unani Tibbi College, Delhi. • Discuss the importance of Ajmal Khan Tibbiya College, Aligarh. • Discuss the importance of Takmeelut Tibb College, Lucknow. • Discuss the importance of State Unani Medical College Prayagraj. • Discuss the importance of 	<ul style="list-style-type: none"> • Describe the historical background of Ayurvedic & Unani Tibbi College, Delhi. • Describe the historical background of Ajmal Khan Tibbiya College, Aligarh. • Describe the historical background of Takmeelut Tibb College, Lucknow. • Describe the historical background of State Unani Medical College, Prayagraj. • Describe the historical 		YES	YES	NO	5

		<p>Government Unani Medical College, Patna.</p> <ul style="list-style-type: none"> • Discuss the importance of Jamia Tibbiya/ School of Unani Medical Education & Research, Jamia Hamdard, New Delhi. • Discuss the importance of Nizamia Tibbiya College, Hyderabad. 	<p>background of Government Unani Medical College, Patna.</p> <ul style="list-style-type: none"> • Describe the historical background of Jamia Tibbiya/ School of Unani Medical Education & Research, Jamia Hamdard, New Delhi. • Describe the historical background of Nizamia Tibbiya College, Hyderabad. 					
13	HINDUSTAN MEIN TIBB-E-UNANI KE INTEZAMI WA TEHQIQI SHOBE'JAA T AUR UNKI AHAM KARGUZARIYAN	<ul style="list-style-type: none"> • Describe historical background of AYUSH. • Describe roles and responsibilities of AYUSH. • Describe historical background of NCISM. • Describe Aims & Objectives of NCISM. • Describe historical background of CCRUM. • Describe Aims & Objectives of CCRUM. • Describe historical background of NIUM. 			YES	YES	NO	5

		<ul style="list-style-type: none"> • Describe Aims & Objectives of NIUM. • Describe historical background of TKDL. • Describe Aims & Objectives of TKDL. 						
14	TIBBI AKHLAQIYAT	<ul style="list-style-type: none"> • Describe fanne Tibb ki Azmat wa Sharafat. • Illustrate the importance and responsibilities of Atibba. • Discuss importance of Tibbi Akhlaqiyat. • Use Tibbi Akhlaqiyat in medical practice. • Describe Muaheda-e-Buqratiya. • Discuss historical background of Muaheda-e-Buqratiya. • Explain Muaheda-e- Buqratiya ke matan ka Urdu Tarjuma. • Describe characteristics of Atibba. • Describe characteristics of mutallameen-e-Tibb. 			YES	YES	NO	5

		<ul style="list-style-type: none"> Describe zabta-e-Akhlaq constituted by CCIM for physicians. Describe & Use CCIM ka zabta akhlaq in medical practice. Describe Unani Atibba ke Akhtiyarat. Describe Ghair Akhlaqi Tababat. 						
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Calculation of Internal assessment

TERM	PERIODICAL ASSESSMENT				TERM TEST	TERM ASSESSMENT	
	A	B	C	D	E	F	G
	1 (20)	2 (20)	3 (20)	Average (A+B+C /3) 20	Term Test (MCQ+SAQ+LAQ) And Practical (Maximum 20)	Sub Total	Term Assessment
FIRST						D+E	D+E /2
SECOND						D+E	D+E /2
THIRD					NIL	D	D
Final IA	Average of Three Term Assessment Marks as Shown in 'G' Column						

S.NO	TOPIC	CHECK LIST
1	PRACTICAL / CLINICAL PERFORMANCE	➤ Not applicable
2	OPEN BOOK TEST	➤ Conducting open book test weekly
3	SUMMERY WRITING	➤ Summery of Must known topics as per curriculum
4	WORKBOOK MAINTENANCE	<ul style="list-style-type: none"> ➤ Famous Attiba As per curriculum ➤ Famous Tibbi Darsgah as per curriculum ➤ Famous Tibbi Kutub as per curriculum
5	SMALL PROJECTS	<ul style="list-style-type: none"> ➤ Preparing charts ➤ Power point presentation
6	EXTRA CURRICULAR ACTIVITES	➤ Visiting Tibbi Darsgah

CHECK LIST FOR PERIODIC ASSESSMENT

TAREEKH E TIBB

Sl.No	Type of Question	Question Paper Format
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**QUESTION PAPER BLUE PRINT
TAREEKH-E-TIBB**

Q1	<p>Multiple choice Questions (MCQ)</p> <p>20 Questions</p> <p>1 mark each</p> <p>All compulsory</p> <p>Must know 15 MCQ Desirable to know 3 MCQ Nice to know 2 MCQ</p>	<ol style="list-style-type: none"> 1. Topic number 1 2. Topic number 2 3. Topic number 3 4. Topic number 4 5. Topic number 5 6. Topic number 6 7. Topic number 7 8. Topic number 8 9. Topic number 9 10. Topic number 10 11. Topic number 11 12. Topic number 12 13. Topic number 13 14. Topic number 14 15. Topic number 2 16. Topic number 4 17. Topic number 6 18. Topic number 7 19. Topic number 10 20. Topic number 13
Q2	<p>Short answer Questions (SAQ)</p> <p>Eight Questions</p> <p>5 Marks Each</p> <p>All compulsory</p> <p>Must know 7 SAQ Desirable to know 1 SAQ No Questions on Nice to know</p>	<ol style="list-style-type: none"> 1. Topic number 3/4 2. Topic number 5 3. Topic number 6/7 4. Topic number 8/9 5. Topic number 10 6. Topic number 11/12 7. Topic number 13 8. Topic number 14
Q3	<p>Long answer Questions (LAQ)</p> <p>Four Questions</p> <p>10 marks each</p> <p>All compulsory</p> <p>All questions on must know No Questions on Nice to know and Desirable to know</p>	<ol style="list-style-type: none"> 1. Topic number 2 2. Topic number 6 3. Topic number 7 4. Topic number 10

MODEL QUESTION PAPER

TAREEKH-E-TIBB

MCQ

1X20=20

Marks

1) History is an Arabic word, which means.

- a) explain b) fix c) open d) read

- اتاریخ عربی زبان کی لفظ ہے جس کے معنی -

الف) بی ان کرنا ب) تعویذ کرنا ج) کھولنا د) پڑھنا

2)has the first centre of medicine.

- a) Arab b) Rome c) Babylon d) China

2-..... کو فن طب کا اولین مرکز مین یکا اشرف حاصل ہے -

الف) عرب ب) روم ج) بابل د) چین

3) Who is called Healing God?

- a) Buqrat b) Asqalibiyos c) Imhotep
d) Desqooridoos

3- رلی شرف کس کا لقب تھا؟

الف) بقراط ب) اسقلیبیوس ج) امحو و طبیب د) دیسقوریوس

4) Who is called Imam of Unani philosophy?

- a) Buqrat b) Asqalibiyos c) Arastu d) Aflatoon

- یونانی فلسفہ کا امام کس کے جاتا ہے؟

الف) بقراط ب) اسقلیبیوس ج) ارستو د) الٹون

5) Writer of Kitabul Hashaish.....

- a) Jalinoos b) Desqooridoos c) Hirophilus
d) Aflatoon

5 کتاب ابل حشر طئشک عمصنف -----ہیں۔

الف) جالہنوس ب) سرقوری دوس ج) ووفلیوس د) ال طون

6) Haris ibne Kilda belong to.....

a) Unan b) Misr c) Arab d) Iran

6۔ ہرث ابن کلہک لعلق -----تھا۔

الف) یونان ب) مصر ج) عرب د) طران

7) Famous book of Rabban Tabari is

a) Kitabul Fusool b) Kitabul Mijaz c) Firdousul Hikmat
d) Kitabul Havi

7۔ ابن طبری کی لہ من از کتاب -----ہے۔

الف) کتاب ابل فھول ب) کتاب ال مزاج ج) دوس ال حکمت د) کتاب
ال حاوی

8) What is the subject of Jamiul mufrdaat?

a) Murakkab Advia b) Haivani Advia c) Mufrad Advia
d) Madani Advia

8۔ جام الی مفردات کس موضوع پر لکھی جئے ولی کتاب ہے؟

الف) مرکب ادویہ ب) جی ولی ادویہ ج) مفرد ادویہ د) معنی ادویہ

9) become famous with the title of Zareer.

a) Dawoon Anraki b) Ibne baitar c) Abu sahal Maseehi
d) Ibne Khateeb

9۔ ----- ضریر کے لقب بسے مشہور ہوئے۔

الف) داود ل طکی ب) ابن بی طار ج) بوس ہل مسری حی د) بن
خطیب

10) The author of Majmu-e-Ziyaae is

- a) Ibne butlan b) Ibne Khateeb c)Ibnul Qaf d)Ziya
mohammed Rashid zangi

10- مجموعہ عظیمہ کے مصنف ہیں۔

- الف) ابن طالن ب) ابن خطب ج) ابن لقف د) ضیاء محمد
مسعود شیدی د زنگی

11) Khandan-e-Sharifi is famous medical family.

- a) Rampur b) Hydrabad c)Dehli d)Lakhnow

11- خانہ دل شرفی کا مشہور طبی خاندان ہے۔

- الف) رانپور ب) حیدرآباد ج) دہلی د) لکھنؤ

12) Founder of Takmilut Tib college is

- a) Rampur b) Hydrabad c)Dehli d)Lakhnow

12- تاملت طب کالج کے بانی ہیں۔

- الف) حکیم عبدالعزیز لکھنوی ب) حکیم عبدالحمید ج) حکیم اجمل خان
د) حکیم اعظم خان

13) does research in Unani medicine.

- a) CCRUM b) CCIM c)CCRAM d)NIUM

13- یونانی طب میں تحقیقی کام کی تنظیم سرانجام دیتی ہے۔

- الف) سی، سی، آر، وی، ٹی، سی ب) سی، سی، سی، آئی، ٹی، سی، سی
سی، آر، اے، ٹی، سی د) این، ای، سی، وی، ٹی، سی

14) Who compiled Muaahadaye Buqratiya?

- a) Arastu b)Abul qasim Zohravi c)Buqrat d)Ibne
Seena

14- مباحثہ بقراتیہ کی تالیف کی؟

- الف) ارسطو ب) ابوالقاسم زہراوی ج) بقرات د) ابن سینا

15) Who compiled Muaahadaye Buqratiya?

- a) Arastu b)Abul qasim Zohravi c)Buqrat d)Ibne
Seena

15.....کوبالی و نوری عوام مقدس سے منجھے تھے۔

الف) آگ اور پانی ب) پانی اور تیل ج) آگ د) پانی

16) Who invent theory of AKhlat?

- a) Ibn-e-Rushd b)Buqrat c)Rabban Tabri d) Abul
qasim Zohravi

16۔ نظریہ اہل طکسن پبیش کی؟

الف) ابن رشد ب) بقراط ج) ابن طبری د) ابوالقاسم زہراوی

17) is famous institute of Abbasi period.

- a) Ibn-e-Rushd b)Buqrat c)Rabban Tabri d) Abul
qasim Zohravi

17۔ عیسیٰ دور کی مشہور درسگاہ تھی۔

الف) فردوس ال حکمت ب) بیت ال حکمت ج) مدرسہ چندی شریپور د)
ان میں سے کوئی نہیں

18) Author of Kitabul Havi is

- a) Ibn-e-seena b)Zakriya razi c)Ibne Jazla d)
Mohammed Tabri

18 کتاب ال حواوی کے مصنف ہیں۔

الف) علی بن سینا ب) زکریا رازی ج) ابن جزلہ د) محمد طبری

19) Hakeem Ali Gilani is famous Tabib of

a) Ibn-e-seena b) Zakriya razi c) Ibne Jazla d)

Mohammed Tabri

19 کچھم علی گیانی ----- کے مشہور طبی بت ہے۔

الف) عہد تنقید ب) مغل دور ج) عہد برطانوی د) عہد
عالمی

20) NIUM established in

a) 1984 b) 1980 c) 2004 d) 1988

20- نین، ٹائی، وی، ملی کی بنیاد ----- میں رکھی گئی۔

الف) 1984 ب) 1980 ج) 2004 د) 1988

MAQ

5X8=40 Marks

21) Explain the Medical practices of Pre Hippocratic era.

21- لم قبل قراطین طب پر روشنی ڈالی۔

22) Write down the theories of Buqrat.

22- بقراط کے پیش کردہ منظر نظریات کی تشریح ہے۔

23) Write some famous translator of Baitul Hikmat.

23- بیت الحکمہ تک بعض مترجمین کے نام لکھے۔

24) Describe the medical services of Abul Qasim Zohravi.

24- ابو القاسم زہراوی کی طبی خدمات پر روشنی ڈالی۔

25) Name some famous books of Azam Khan.

25- حاکم اعظم خاں کے مشہور کتابوں کے نام لکھے۔

26) Describe the historical background of Ayurvedic & Unani Tibbi College, Delhi.

26- طووی دکوان ٹیوزنای طبیکال چکات اویخیپس فیظر لکھیے۔

27) Describe Aims & Objectives of CCRUM.

27- سی، سی، آر، یو، طمکے اغراض و قیلصیبی انکی جھیے۔

28) Write a note on fanne Tibb ki Azmat wa Sharafat.

28- علم طبکی عظمت و شرفلتپرنوٹالکھیے۔

LAQ

10X4=40 Marks

29) Describe fanne tibb ki ibteda aur iske awwaleen marakiz.

29- فن طبکی ابتداء اور اسکے اولین مرکز کو ووضیحکی جھیے۔

30) Describe Medical services of Baitul Hikmat.

30- بیت ل حکم تکوینی طبی خدمت تکوین فیصل سے ووضیحکی جھیے۔

31) Describe importance of Kamilus Sana'a.

31- کامل الصناعات کی لمی تکوینی انکی جھیے۔

32) Describe Hakeem Ajmal Khan and explain his medical services.

32- حکیم اجمل خان اور لکی طبی خدمت تکوین فیصل سے لکھیے۔

ರಾಜೀವ್ ಗಾಂಧಿ ಆರೋಗ್ಯ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಕರ್ನಾಟಕ

Rajiv Gandhi University of Health Sciences, Karnataka



**COURSE CURRICULUM FOR FIRST PROFESSIONAL BUMS
(PRESCRIBED BY NCISM)**

**TAREEKHE TIB
SUBJECT CODE: UNIUG-TT
HISTORY OF MEDICINE**

**Applicable from 2021-2022 batch on words for five years or until further notification by
NCISM, whichever is earlier**

I professional BUMS

Subject Code: UNIUG-TT

Tareekhe Tib

KEY POINTS

Total number of Teaching hours: 150			
Lecture hours (LH) - Theory		50 Hours	50 Hours (LH)
Paper I	50 Hours		
Non-Lecture hours (NLH) – Theory		100 Hours	100 Hours (NLH)
Paper I	100 Hours		
Non-Lecture hours (NLH) - Practical		NA	

Examination (Papers & Mark Distribution)					
Item	Theory Component Marks	Practical Component Marks			
		Practical	Viva	Elective	IA
Paper I	100	--	30	--	20
Sub-Total	100	150			

Total marks	150
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Preface

The course Tareekh-e-Tibb (History of Medicine) covers the history by the roots and periodic development of Unani Medicine since the ancient times through scholastic medieval traditions to the present day.

Tareekh-e-Tibb recognizes the eminent physicians and institutions that advanced the Unani system of medicine and so motivate the physicians of the time. The elementary framework of Unani Medicine is based on the views of Buqrat (Hippocrates) as he laid foundation of clinical medicine on the basis of his careful observations. After Buqrat (Hippocrates), Jalinoos (Galen) stands out and consolidated Hippocratic doctrine by practical approach on which Zakariya Razi (Rhazes) and Ibn-eSina (Avicenna) constructed an imposing edifice. Imbibing what was the best in the contemporary systems of traditional medicine in Egypt, Syria, Iraq, Persia, India, China and other middle east & far east countries, they enriched the Unani system of Medicine that is why the system is known in different parts of the world, with different names such as Greco-Arab Medicine, Ionian Medicine, Arab Medicine, Traditional Medicine, Oriental Medicine & Eastern Medicine etc.

The course not only chronicles the global acceptance and impact of Unani system of medicine with its distinction but also leads to improvements in the context of research & development in the field. Unani Medicine has a long and impressive record in India since its introduction. Today, India is one of the leading countries as far as the practice of Unani Medicine is concerned. It has the largest number of Unani educational, research and health care institutions. The course also covers valuable and timeless lessons in the realm of Medical Ethics to be followed by the physicians. Unani System of Medicine appreciate the faithfulness of physicians towards ethics as Hippocrates produced a remarkable ethical code of conduct named as Hippocratic Oath which is everlasting to guide the physicians to be careful regarding medical ethics.

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First BUMS:

Course Code and Name of Course

	Course code	Name of Course
	UNIUG-TT	Tareekhe Tib (History of Medicine)

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Table 1- Course outcomes and matched Program outcomes

SRI CO No	A1 Course Outcome (CO) UNIUG-TT At the end of the course UNIUG-TT, the student should be able to-	B1 Course Outcome matched with program outcomes.
CO1	Understand to describe gradual development of art of healing and recognize that Unani medicine is a myth free logically sound, experiment based medical system with an all-time influence on progressive medical sciences since its advent.	PO1,PO2,PO6
CO2	Distinguish between pre and post Hippocratic level of medicine, Comprehend the reasons behind acknowledgment of Buqrat (Hippocrates) as the Father of Medicine and the outstanding subsequent philosophers and physicians.	PO1,PO2,PO6
CO3	Discuss the services of Bait-al-Hikmat to collect medical knowledge of the time, its Arabic translation which becomes foundation of Greek-o-Arabic Medicine and legacy of renowned physicians of medieval era.	PO2,PO6
CO4	Explain the leading account of creditable documents concerning with the beginning, progress and practice of Unani medicine with their forms and places to use them as a reference.	PO4,PO8
CO5	Discuss introduction of Unani Medicine in India, famous Indian physicians and their contributions along with their interdisciplinary approach with Ayurveda by virtue of which Unani Medicine becomes indigenous.	PO4,PO6
CO6	Recognize and explain the substantial development of Infrastructure in respect to Unani Medicine under the patronage of Indian Government.	PO8
CO7	Appreciate and discuss the faithfulness of physicians towards ethics since antiquity, as Hippocrates specially wrote a remarkable ethical code of conduct, which, in present self-interested era become more precious.	PO3,PO5,PO7

Table 2: Contents of Tareekhe Tib

	A2 List of Topics UNIUG-TT	B2 Term	C2 Marks	D2 Lecture hours	E2 Non- Lecture hours

1.	تاریخ طب اور اس کی اہمیت (Tareekh-e-Tibb aur iski Ahmiyat)	I	10	01	2
2.	فنطوب کی ابتداء اور اس کے اولین مرا ک (Fanne Tibb ki Ibteda aur iske Awwaleen Marakiz) ابلی و آشورت (Babuli wa Aashuri Tibb) a. یطب b. یطب مصر (Misri Tibb) c. چینی طب (Cheeni Tibb) ہند یطب / ایورویڈ (Hindi Tibb/Ayurveda) ای انی طب اور مدرسہ جندی (Irani Tibb aur a.d e. Madrasa Jundi Shapur) شاپور f. تانی طب یو (Unani Tibb)	I		04	08
3.	نی تا یو (Unani Tibb ma Qabl Buqrat) ط طب ما قبل بقرا a. اس قلی بیوس (Asqalibiyoos)	I	05	01	02
4.	بقراط اور اس کے بعد کے یو تانی اطباء (Buqrat aur uske baad ke Unani Atibba) a. بقراط (Buqrat) b. ارسطو (Arastu) c. پیروفیلوس (Herofiloos.) یس سطر (Erasistratoos) مدرسہ (Madrasa Askandriya) d. اطوس e. اسکندریہ	I	05	03	06
5.	طب اور ترومی (Roomi Tibb aur Bazantini) از نطینی طب (Tibb) یدوس سقور دی (Desqooridoos) b. جالینوس (Jalinoos) a.	I	05	02	04
6.	عربی (Arabi Tibb) طب a. عہد جاہلیت (Ahd-e- Jahiliyat)	I	15	06	12

	a. کلدہ ٹبن حار (Haris bin Kilda)			
ی	نبو طب (Tibb- e- Nabwi)			
	ii. دور امو (Daur Umwi)			
ی	iii. ی بن حیان جا (Jabir bin Hayyan)			
	iv. a. بن لدخا (Khalid bin Yazeed)			
	b. ید (Abbasi Daur)			
	a. بیتالحکمت (Baitul Hikmat)			
	حنابن ماسویہ یو (Yohanna bin Masawayh)			
b.				
	بن اس ح ن نی ح (Hunain bin Ishaq)			
c.	ق			
	بن ب تا (Sabit bin Qurra)			
d.	قہ			
	e. ق یعقوب بن اس ح (Yaqoob bin Ishaq)			
	gf. ق سجرط ابن ائیل بن لوقاب ح			
	ن ی (Qusta bin Luqa)			
	س و ع (Jibrayeel bin Bakhtishu)			
	h. بغداد میں ہندوستانی اطباء کی آمد اور آورو			
d	یک کتابو ن کے			
	ی جمے			
	(Baghdad mein Hindustani Atibba ki Aamad aur Ayurvedic Kitabon ke Tarjume)			

7.	<p>ق و طب (Tibb Quroon-e-Usta mein) ن وسطی میں</p> <p>a. یعلین رین طبر (Ali bin Rabban Tabri)</p> <p>b. ی حمدبن محمد طبرا (Ahmad bin Mohammad Tabri)</p> <p>c. ی محمدبن زکرت ار از (Mohammad bin Zakariya Razi)</p> <p>d. یعلین عباس مجوسی (Ali bin Abbas Majoosi)</p> <p>e. ابن سینا (Ibn-e-Sina)</p> <p>f. ی ابو منصور نوح القمر (Abu Mansoor Nooh al Qamri)</p> <p>g. ابوسهل مسیحی (Abu Sahal Masihi)</p> <p>h. ج جانی عیلا سما (Ismail Jurjani)</p> <p>i. ی نجیبا لدین سمرقند (Najeebuddin Samarqandi)</p> <p>z. ینق شی علاء الد (Alauddin Qarshi)</p> <p>k. بنعوض نفیس کرمانی (Nafees bin Awz kirmani)</p>	II	15	08	16
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	<p>a. کحال سی علی بن عی (Ali bin Isa Kahhal)</p> <p>m. ی ہبلبغداد ابن (Ibn-e-Hubal Baghdadi)</p> <p>بن ا (Ibn-e-Jazla)</p> <p>n. جله</p> <p>o. ابن بطلان (Ibn-e-Butlan)</p> <p>p. ی عبد اللطیف بغداد (Abdul Lateef Baghdadi)</p> <p>q. کمال الدین ایانی (Kamaluddin Irani)</p> <p>r. محمود آملی (Mahmood Aamli)</p>				
8.	<p>اطباء اندلس (Atibba Undulus)</p> <p>a. ش ابن ر (Ibn-e-Rushd)</p> <p>ہ او سمزابوا القا (Abul Qasim Zahrawi)</p> <p>b. ی</p> <p>c. ابن خطیب (Ibn-e-Khateeb)</p>	II	05	03	06

	d. ابن بيطار (Ibn-e-Baitar) e. ابن زه (Ibn-e-Zuhr)				
9.	مصر ء طببا (Atibba Misr wa Sham) ماش a. داناکی داؤ (Dawood Antaki) ی ابن ہ (Ibn-e-Haysham) b. سم c. ف مسیحی ابن الق (Ibn-al-Qaf Masihi) ق بن سلیمان اسح (Ishaq bin Sulaiman Israili) d. سرائیلی	II	05	02	04
10.	طب یوا. پندوستان تانی (Tibb-e-Unani Hindustan main) میں تغل عہد (Ahd-e-Tughlaq) ر شید a. ضیاء محمد مسعود زنگی (Zia Mohammad) Masood Rasheed Zangi عہد (Ahd-e-Lodhi) III بہوہ (Bahwa bin Khawas) لود a Khan (خواص خان بن عہد مغلیہ (Ahd-e-Mughliya) حکیم علی گیلانی (Hakim Ali Gilani) a. b. حکیم صدرا (Hakim Sadra) اللہ امان حکیم (Hakim Amanullah) c Khan (خان d. حکیم اکبر ارزانی (Hakim Akbar Arzani)	II	15	10	20

	<p>عل و ہاشم حکیم (Hakim Hashim Alwi ی خان .e Khan)</p>				
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	<p>حکیم یوسفی (Hakim Yusufi) .f .g. حکیم شریف خان (Hakim Shareef Khan) شاہی قطب (Qutub Shahi Daur) دو ر .IV .a. حکیم میر موم (Hakim Mir Momin) .b. حکیم الملك نظام الدین گیلانی (Hakim-ul-mulk Nizamuddin Gilani) .V. نظام شاہی دور (Nizam Shahi Daur) .a. ج جانی رستم (Rustam Jurjani) لیگیلا حکیم و (Hakim Wali Gilani) ب. نی شاہی عادل (Aadil Shahi Daur) دو ر .VI .a. شت سق ابو القا (Abul Qasim Farishta) آصف جاہی دور (Aasif Jahi Daur) ر .VII</p>				
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a. خان حکیم رضاعلی (Hakim Raza Ali khan)			
b. حکیم شفا ئی خان (Hakim Shafai Khan)			
(Gujrat ka Mashhoor کی گجرات مشہو رطبیب Tabeeb)	.VIII		
a. شہاب عبد الکریم ی (Shahab Abdul Kareem Nagowri)			
ی طانوی (Bartanawi Ahad) عہد	.IX		
a. حکیم اجمل خان (Hakim Ajmal khan)			
عبد حکیم (Hakim Abdul Aziz)			
العز			
b. ی لکھنوی Lucknawi)			
c. عظمخان حکیم ا (Hakim Azam khan)			
حکیم عبد الحمید (Hakim Abdul Hameed) .d			
فلسفی الطیف عبد حکیم (Hakim Abdul Lateef .e			
Falsafi)			
f. حکیم عبد الحلیم لکھنوی (Hakim Abdul Haleem Lucknawi)			
حکیم احمد حسین (Hakim Ahmad Husain عثمانی .g			
Usmani)			
مشہور دیگر چند (Chand Digar Mashhoor طباء Atibba)			
a. حکیم محمد کبیر الدین (Hakim (Mohammad Kabiruddin)	.X		

	<p>b. حکیم غلام حسنین کر (Hakim Ghulam Hasnain Kintoori)</p> <p>c. Ilyas (Hakim Mohammd خان محمد الیاس خان) khan)</p> <p>d. ی حکیم عبد الحمید دہلو (Hakim Abdul Hameed Dehlvi)</p> <p>e. حکیم عبد الرزاق (Hakim Abdul Razzaq)</p>				
11.	<p>ہندوستان کے مشہور طبیکانوادے (Hindustan ke Mashoor Tibbi Khanwade)</p> <p>a. خاندان شریفی (Khandan-e-Shareefi)</p> <p>b. خاندان نعی (Khandan-e-Azeezi)</p> <p>c. خاندان عثمانی (Khandan-e-Usmani)</p>	III	05	02	04
12.	<p>ہندوستان میں طب یونانی کے قوغ میں درس گاہوں ک کردار (Hindustan mein Tibb-e-Unani ke Farogh mein Darsghahon ka Kirdar)</p> <p>a. اے اینڈ یو طبیک لج، ق ول تا (A & U Tibbi College Karol Bagh Delhi)</p> <p>ب طبیک لج ن اجمل خا (Ajmal Khan Tibbiya ب College, علی گھ، Aligarh)</p> <p>c. لکھنؤ تکمیل الطب ک لج، ہی و (Takmeelut Tibb College, Lucknow)</p> <p>d. اسٹیٹ یو ات نی میڈیکل ک لج، گراج State (Unani Medical College, Prayagraj)</p> <p>e. گورنمنٹ یو ات نی میڈیکل ک لج، (Government Unani</p>	III	05	02	04

	<p>Medical College, Patna)</p> <p>f. جامعہ طبیبہ/ اسکول آف یو ت انیمیڈ یکل ایجوکیشن اینڈ ریسرچ ، جامعہ دہلی ، پدرد ، نئی</p> <p>(Jamia Tibbiya/School of Unani Medical Education & Research, Jamia Hamdard, New Delhi)</p> <p>g. نظا میہ طبیبک لچ ، حیدر آتا (Nizamia Tibbia College د ,Hyderabad)</p>					
13.	<p>ستان میں طب یو تانی کے انتظامی و تحقیقی س عی نہ جات اور ان کی ا ہمک رگزار تا ن</p> <p>(Hindustan mein Tibb-e-Unani ke Intezami wa Tehqiqi Shobajat aur unki Aham Karguzariya)</p>	ہندو	III	05	02	04
	<p>a. آ یوش (AYUSH)</p> <p>b. این - سی - آئی - ایس - ایم (NCISM) .c سی - سی - آ - ریو - ایم (CCRUM) .d این - آ - ٹی یو - ایم (NIUM) .e ٹی - کے - ڈ - ی ا - ی (TKDL)</p>					

14.	<p>طبی اخلاقیات (Tibbi Akhlaqiyat)</p> <p>شرافت فنطب کی عظمت اور (Fanne Tibb ki Azmat اور Sharafat)</p> <p>a. aur Sharafat)</p> <p>b. طبی اخلاقیات (Tibbi Akhlaqiyat)</p> <p>معاهدہ بقراطیہ اور اس کیس (Muaheda-e-Buqratiya اور Uska pas Manzar)</p> <p>c. اور Uska pas Manzar)</p> <p>d. معاہدہ بقراطیہ کے متنک اردوی جم (Muaheda-e-Buqratiya ke Matan ka Urdu Tarjuma)</p> <p>e. فاطباء کے اوصاف (Attiba ke Aausaf)</p> <p>کے اوصاف فنطب (Mutallmeen-e-Tibb ke علم ای)</p> <p>f. سی (CCIM) Aausaf)</p> <p>ب کردہ ضابطہ یم کے مر ۱- آ سی سی</p> <p>g. ی کے Marattab karda</p> <p>Zabta-e-Akhlaq barae</p> <p>Tabeeb)</p> <p>h. یوتانی اطباء کے اختیارات (Unani Atibba ke Akhtiyarat)</p> <p>ب غیر اخلاقی طبا (Ghair Akhlaqi Tababat)</p> <p>i.</p>	III	05	04	08
Total:				50	100

Table 3: Learning objectives of Tareekh-e-Tibb UNIUG-TT (Theory)

A3 Course outcom e	B3 Learning Objective (At the end of the session, the Students should be able to)	C3 Domain/Sub	D3 Must to know/desirabl e to know/Nice to know	E3 Level Does/shows / Knows how/ Knows	F3 T-L method	G3 Assessment	H3 Formative /summativ e	I3 Ter m	J3 Integratio n
TOPIC 1- TAREEKH-E-TIBB AUR ISKI AHMIYAT (Lecture:- 1 hours, Non lecture 2 hours)									
CO1	Describe Tareekh-eTibb.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	I	
CO1	Recognize and explain the importance of Tareekh-e-Tibb.	Cognitive, Comprehension	MK	Know	Group Discussion	Written/Viva	F&S	I	
TOPIC 2- FANNE TIBB KI IBTEDA AUR ISKE AWWALEEN MARAKIZ (Lecture:- 4 hours, Non lecture 8 hours)									
CO1	Explain the history of Medicine in ancient times.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	I	
CO1	Describe fanne tibb ki ibteda aur iske awwaleen marakiz.	Cognitive, Recall	MK	Know	Lecture/ Tutorial	Written/Viva	F&S	I	
(a) Babuli wa Aashuri Tibb.									
CO1	Explain Babuli wa Aashuri Tibb.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	I	

CO1	Describe the fundamental concepts of Babuli wa Aashuri Tibb.	Cognitive Recall	MK	Know	Lecture/ Demonstration	Written/Viva	F&S	I	
CO1	Describe the Mode of treatments in Babuli wa Aashuri Tibb.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	I	
CO1	Identify the Source of information for Babuli wa Aashuri Tibb.	Cognitive, Recall	DK	Know	Lecture	Written/Viva	F&S	I	
(b) Misri Tibb.									
CO1	Explain Misri Tibb.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	I	
CO1	Describe the fundamental concepts of Misri Tibb.	Cognitive, Comprehension	MK	Know	Lecture / Demonstration	Written/ Viva	F&S	I	
CO1	Describe the Modes of treatment in Misri Tibb.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	I	

CO1	Identify the Source of information for Misri Tibb.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	I	
CO1	Explain the contents & importance of Papyri.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	I	
(c) Cheeni Tibb.									
CO1	Explain Cheeni Tibb.	Cognitive, Comprehension	MK	Know	Lecture	Written/Viva	F&S	I	
CO1	Describe the fundamental concepts of Cheeni Tibb.	Cognitive, Comprehension	MK	Know	Lecture	Written/Viva	F&S	I	
CO1	Identify the contributions of Ancient Cheeni Philosophers & Physicians.	Cognitive, Recall	DK	Know	Lecture	Written/Viva	F&S	I	
CO1	Describe the special Modes of treatment & modes of investigations in Chinese Medicine.	Cognitive, Comprehension	MK	Know	Lecture/ Demonstration	Written/Viva	F&S	I	

(d) Hindi Tibb/ Ayurveda.

CO1	Explain Hindi Tibb/Ayurveda.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	I	
CO1	Describe the fundamental concepts of Ayurveda.	Cognitive, Recall	MK	Know	Lecture/ Demonstartion	Written/Viva	F&S	I	
CO1	Describe the modes of investigation & special modes of treatment used in Ayurveda.	Cognitive, Comprehension	MK	Know	Lecture	Written/Viva	F&S	I	
CO1	Identify the Source of information for Ayurveda & Important Ayurvedic Physicians.	Cognitive, Recall	MK	Know	Lecture/ Tutorial	Written/Viva	F&S	I	

(e) Irani Tibb aur Madrasa Jundi Shapur.

CO1	Explain Qadeem Irani Tibb.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	I	
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CO1	Describe the fundamental concepts & Modes of treatment in Qadeem Irani Tibb.	Cognitive, Comprehension	MK	Know	Lecture/ Demonstration	Written/Viva	F&S	I	
CO1	Describe the Establishment of Madrasa Jundi Shapur.	Cognitive, Comprehension	MK	Know	Lecture	Written/Viva	F&S	I	
CO1	Identify the contributions of Madrasa Jundi Shapur and important physicians associated with it.	Cognitive, Comprehension	MK	Know	Lecture/Group Discussion	Written/Viva	F&S	I	
(f) Unani Tibb.									
CO1, CO2	Explain Unani Tibb.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	I	
CO1, CO 2	Describe the fundamental concepts & Modes of treatment in Unani Tibb.	Cognitive, Comprehension	MK	Know	Lecture/ Demonstration	Written/Viva	F&S	I	
TOPIC 3- UNANI TIBB MA QABLE BUQRAT (Lecture:- 1 hours, Non lecture 2 hours)									

CO2	Describe the Origin of Medicine in Ancient Greece.	Cognitive, Comprehension	MK	Know	Lecture/ Educational Videos	Written/Viva	F&S	I	
CO2	Explain the Medical practices of Pre Hippocratic era.	Cognitive, Comprehension	MK	Know	Lecture/ Group Discussion	Written/Viva	F&S	I	
(a) Asqalibiyoos.									

CO2	Describe Tabeeb-e-awwal, Asqalibiyoos & his temple practice.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	I	
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TOPIC 4- BUQRAT AUR USKE BAAD KE UNANI ATIBBA (Lecture:- 3 hours, Non lecture 6 hours)

CO2	Distinguish between Hippocratic & Post Hippocratic era of Unani Tibb.	Cognitive, Comprehension	MK	Know	Lecture/ Tutorial	Written/Viva	F&S	I	
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(a) Buqrat (Hippocrates).

CO2	Describe the life history of Buqrat	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	I	
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CO2	Describe the contributions of Buqrat.	Cognitive, Comprehension	MK	Know	Lecture/ Educational Video	Written/Viva	F&S	I	
(b) Arastu (Aristotle).									
CO2	Describe the life history of Arastu.	Cognitive, Recall	DK	Know	Lecture	Written/Viva	F&S	I	
CO2	Describe the philosophies Arastu related to Unani Medicine.	Cognitive, Comprehension	MK	Know	Lecture/ Symposium	Written/Viva	F&S	I	
(c) Herofilooos.									
CO2	Describe the Life history of Herofilooos.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	I	
CO2	Describe the contributions of Herofilooos.	Cognitive, Comprehension	MK	Know	Lecture/ Demonstration	Written/Viva	F&S	I	
(d) Erasistratoos.									
CO2	Describe the Life history of Erasistratoos.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	I	

CO2	Describe the contributions of Erasistratoos.	Cognitive, Comprehension	MK	Know	Lecture/ Demonstration	Written/ Viva	F&S	I	
(e) Madrasa Askandriya.									
CO2	Explain the importance of Madrasa Askandriya and its contributions.	Cognitive, Recall, Comprehension	MK	Know	Lecture/ Group Discussion	Written/ Viva	F&S	I	
TOPIC-5 ROOMI TIBB AUR BAZANTINI TIBB (Lecture:- 2 hours, Non lecture 4 hours)									

CO2	Describe Roomi Tibb and its important aspects.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	I	
CO2	Describe Bazantini Tibb and famous physician associated with it.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F	I	
(a) Desqooridoos (Dioscorides).									
CO2	Explain life history of Desqooridoos.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	I	
CO2	Describe the contributions of Desqooridoos.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	I	

CO4	Discover the importance of Kitabul Hashaish.	Cognitive, Comprehension	MK	Know	Lecture/ Group Discussion	Written/ Viva	F&S	I	
(b) Jalinoos (Galen).									
CO2	Describe the life history of Jalinoos.	Cognitive, Recall	MK	Know	Lecture/ Educational Video	Written/ Viva	F&S	I	
CO2	Describe the contributions of Jalinoos.	Cognitive, Comprehension	MK	Know	Lecture/Seminar	Written/ Viva	F&S	I	
CO4	List important Medical text books of Jalinoos	Cognitive, Recall	MK	Know	Lecture/ Visit to Library	Written/ Viva	F&S	I	

TOPIC- 6 ARABI TIBB (Lecture-06 & Non Lecture-12)									
CO3	Explain Tibb in Arab.	Cognitive, Comprehension	MK	Know	Lecture	Written/Viva	F&S	I	
CO3	Describe the contribution of Arabs in field of Medicine.	Cognitive, Comprehension	MK	Know	Lecture/ Group Discussion	Written/Viva	F&S	I	
CO3	Differentiate between Pre Islamic & Post Islamic Arabi Tibb.	Cognitive, Comprehension	MK	Know	Lecture	Written/Viva	F&S	I	

i. Ahd-e- Jahiliyat:									
CO3	Describe Arabic medicine in Ahd-e- Jahiliyat.	Cognitive, Comprehension	MK	Know	Lecture	Written /Viva	F&S	I	
(a) Haris bin Kilda.									
CO3	Discuss the life history & of Haris bin Kilda	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	I	
CO3	Describe the contributions of Haris bin Kilda.	Cognitive, Comprehension	MK	Know	Lecture	Written/Viva	F&S	I	
ii. Tibb-e-Nabwi:									
CO3	Explain the importance of Tibb-eNabwi.	Cognitive, Comprehension	MK	Know	Lecture	Written/Viva	F&S	I	
CO3	Summarize the important aspects	Cognitive, Comprehension	MK	Know	Lecture/ Seminar	Written/Viva	F&S	I	
	regarding health, disease& treatment in Tibb-e-Nabwi.								
iii. Umwi Daur:									
CO3	Describe the development of medicine in Umwi daur.	Cognitive, Comprehension	MK	Know	Lecture	Written/Viva	F&S	I	
(a) Jabir bin Hayyan.									

CO3	Discuss life history of Jabir bin Hayyan.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	I	
CO3	Describe the contributions of Jabir bin Hayyan.	Cognitive, Comprehension	MK	Know	Lecture/Demonstration	Written/Viva	F&S	I	
(b) Khalid bin Yazeed.									
CO3	Discuss life history & of Khalid bin Yazeed.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	I	
CO3	Describe the contributions of Khalid bin Yazeed.	Cognitive, Comprehension	MK	Know	Lecture	Written/Viva	F&S	I	
iv. Ahde Abbasi:									
(a) Baitul Hikmat.									
CO3	Discuss the Establishment and contributions of Baitul Hikmat in the field of Medicine.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	I	
CO3	List translations & compilations done in	Cognitive, Recall	MK	Know	Lecture/ Tutorial	Written/Viva	F&S	I	
	Baitul Hikmat.								
CO3	State the names of famous mutarjimeen of Ahde Abbasi.	Cognitive, Recall	DK	Know	Lecture	Written/Viva	F&S	I	
(b) Yohanna bin Masawayh.									

CO3	Discuss life history of Yohanna bin Masawayh.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	I	
CO3	Describe the contributions of Yohanna bin Masawayh.	Cognitive, Comprehension	MK	Know	Lecture/ Tutorial	Written/Viva	F&S	I	
(c) Hunain bin Ishaq.									
CO3	Discuss life history of Hunain bin Ishaq	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	I	
CO3	Describe the contributions of Hunain bin Ishaq.	Cognitive, Comprehension	MK	Know	Lecture / Demonstration	Written/Viva	F&S	I	
(d) Sabit bin Qurra.									
CO3	Discuss life history of Sabit bin Qurra.	Cognitive, Recall	DK	Know	Lecture	Written/Viva	F&S	I	
CO3	Describe the contributions of Sabit bin Qurra.	Cognitive, Comprehension	MK	Know	Lecture / Demonstration	Written/Viva	F&S	I	
(e) Yaqoob bin Ishaq.									
CO3	Discuss life history of Yaqoob bin Ishaq	Cognitive, Recall	DK	Know	Lecture	Written/Viva	F&S	I	

CO3	Describe the contributions of Yaqoob bin Ishaq.	Cognitive, Comprehension	MK	Know	Lecture	Written/Viva	F&S	I	
(f) Qusta bin Luqa.									
CO3	Discuss life history of Qusta bin Luqa.	Cognitive, Recall	DK	Know	Lecture	Written/Viva	F&S	I	
CO3	Describe the contributions of Qusta bin Luqa.	Cognitive, Comprehension	MK	Know	Lecture	Written/Viva	F&S	I	
(g) Jibrayeel bin Bakhtishu.									
CO3	Discuss life history and contributions of Jibrayeel bin Bakhtishu.	Cognitive, Recall	NK	Know	Lecture	Written/Viva	F	I	
(h) Baghdad mein Hindustani Atibba ki Aamad aur Ayurvedic kitabon ke Tarjume.									
CO3	Describe the arrival of ayurvedic physicians in Baghdad & translations of Ayurvedic text into Arabic.	Cognitive, Recall	DK	Know	Lecture/ Educational Video	Written/Viva	F	I	
TOPIC-7- TIBB QUROONE USTA MEIN (Lecture:- 8 hours, Non lecture 16 hours)									
(a) Ali bin Rabban Tabri.									
CO3	Describe life history of Ali bin Rabban Tabri.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	II	

CO3	Describe the contributions of Ali	Cognitive, Comprehension	MK	Know	Lecture / Group Discussion	Written/ Viva	F&S	II	
	bin Rabban Tabri.								
CO4	Explain the importance & contents of Firdausul Hikmat fil Tibb.	Cognitive, Recall, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
(b) Ahmad bin Mohammad Tabri.									
CO3	Describe life history of Ahmad bin Mohammad Tabri.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO3	Describe the contributions of Ahmad bin Mohammad Tabri.	Cognitive, Comprehension	MK	Know	Lecture / Demonstration	Written/ Viva	F&S	II	
CO4	Explain the importance & contents of Moalijate–Buqratiya.	Cognitive, Recall, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
(c) Mohammad bin Zakariya Razi.									
CO3	Describe life history of Mohammad bin Zakariya Razi.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO3	Describe the contributions of Mohammad bin Zakariya Razi.	Cognitive, Comprehension	MK	Know	Lecture / Demonstration	Written/ Viva	F&S	II	

CO4	Explain the importance & contents of Kitab al Hawi fil Tibb.	Cognitive, Recall, Comprehension	MK	Know	Lecture / Symposium	Written/ Viva	F&S	II	
(d)Ali bin Abbas Majoosi.									

CO3	Describe life history of Ali bin Abbas Majoosi.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO3	Describe the contributions of Ali bin Abbas Majoosi.	Cognitive, Comprehension	MK	Know	Lecture/ Group Discussion	Written/ Viva	F&S	II	
CO4	Explain the importance & contents of Kamil us Sana'at fil Tibb.	Cognitive, Recall, Comprehension	MK	Know	Lecture / Visit to Library	Written/ Viva	F&S	II	

(e)Ibn-e-Sina (Avicenna).									
CO3	Describe life history of Ibn-e-Sina.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO3	Describe the contributions of Ibne-Sina.	Cognitive, Comprehension	MK	Know	Lecture / Seminar	Written/ Viva	F&S	II	
CO4	Explain the importance & contents of Al-Qanoon fil Tibb.	Cognitive, Recall, Comprehension	MK	Know	Lecture / Group Discussion /Vist to Library	Written/ Viva	F&S	II	
(f) Abu Mansoor Nooh al Qamri.									

CO3	Describe life history of Abu Mansoor Nooh al Qamri.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO3	Describe the contributions of Abu Mansoor Nooh al Qamri.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
CO4	Explain the	Cognitive, Recall,	MK	Know	Lecture	Written/	F&S	II	

	importance & contents of Ghana Mana.	Comprehension				Viva			
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(g) Abu Sahal Masihi.

CO3	Describe life history of Abu Sahal Masihi.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO3	Describe the contributions of Abu Sahal. Masihi.	Cognitive, Comprehension	MK	Know	Lecture / Group Discussion	Written/ Viva	F&S	II	
CO4	Explain the importance & contents of Kitabul Mi'at fil Tibb.	Cognitive, Recall, Comprehension	MK	Know	Lecture/ Symposium	Written/ Viva	F&S	II	

(h) Ismail Jurjani.

CO3	Describe life history of Ismail Jurjani.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
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CO3	Describe the contributions of Ismail Jurjani.	Cognitive, Comprehension	MK	Know	Lecture / Tutorial	Written/ Viva	F&S	II	
CO4	Explain the importance & contents of Zakheera Khwarzam Shahi.	Cognitive, Recall, Comprehension	MK	Know	Lecture / Visit to Library	Written/ Viva	F&S	II	
(i) Najeebuddin Samarqandi.									
CO3	Describe life history of Najeebuddin Samarqandi.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO3	Describe the	Cognitive,	MK	Know	Lecture/	Written/	F&S	II	
	contributions of Najeebuddin Samarqandi.	Comprehension			Demonstration	Viva			
CO4	Explain the importance & contents of Asbab wa Alamat.	Cognitive, Recall, Comprehension	MK	Know	Lecture / Visit to Library	Written/ Viva	F&S	II	
(j) Alauddin Qarshi.									
CO3	Describe life history of Alauddin Qarshi.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO3, CO4	Describe the contributions of Alauddin Qarshi.	Cognitive, Recall, Comprehension	MK	Know	Lecture / Group Discussion	Written/ Viva	F&S	II	
(k) Nafees bin Awz Kirmani.									

CO3	Describe life history of Nafees bin Awz Kirmani.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO3,CO 4	Describe the contributions of Nafees Bin Awz Kirman.	Cognitive, Recall, Comprehension	MK	Know	Lecture / Demonstration	Written/ Viva	F&S	II	
(I) Ali bin Isa Kahhal.									
CO3	Describe life history of Ali bin Isa Kahhal.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	II	
CO3,CO 4	Describe the contributions of Ali bin Isa Kahhal.	Cognitive, Recall, Comprehension	MK	Know	Lecture /Demonstration	Written/ Viva	F&S	II	
(m) Ibn-e- Hubal Baghdadi.									
CO3	Describe life history of Ibn-e- Hubal Baghdadi.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	II	
CO3	Describe the contributions of Ibne-Hupal Baghdadi.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
CO4	Explain the importance & contents of Kitabul. Mukhtarat fil Tibb.	Cognitive, Recall, Comprehension	MK	Know	Lecture / Demonstration	Written/ Viva	F&S	II	
(n) Ibn-e- Jazla.									

CO3	Describe life history of Ibn-e- Jazla.	Cognitive, Recall	NK	Know	Lecture	Written/ Viva	F&S	II	
CO3, CO4	Describe the contributions of Ibne- Jazla.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
(o) Ibn-e-Butlan.									
CO3	Describe life history of Ibn-e- Butlan.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	II	
CO3, CO4	Describe the contributions of Ibne- Butlan.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
(p) Abdul Lateef Baghdadi.									
CO3	Describe life history of Abdul Lateef Baghdadi.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO3,	Describe the	Cognitive,	MK	Know	Lecture /	Written/	F&S	II	
CO4	contributions of Abdul Lateef Baghdadi.	Comprehension			Demonstration	Viva			
(q) Kamaluddin Irani.									
CO3	Describe life history of Kamaluddin Irani	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	

CO3, CO4	Describe the contributions of Kamluddin Irani.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
(r) Mahmood Aamli.									
CO3	Describe life history of Mahmood Aamli.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO3	Describe the contributions of Mahmood Aamli.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
TOPIC-08- ATIBBA UNDULUS (Lecture:- 3 hours, Non lecture 6 hours)									
(a) Ibn-e-Rushd.									
CO3	Describe life history of Ibn-e- Rushd.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO3	Describe the contributions of Ibne-Rushd.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
CO4	Explain the importance & contents of Kitabul Kulliyat.	Cognitive, Recall, Comprehension	MK	Know	Lecture/ Demonstration	Written/ Viva	F&S	II	
(b) Abul Qasim Zahrawi.									
CO3	Describe life history of Abul Qasim Zahrawi.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	

CO3	Describe the contributions of Abul Qasim Zahrawi.	Cognitive, Comprehension	MK	Know	Lecture/ Symposium	Written/ Viva	F&S	II	
CO4	Explain the importance & contents of Kitabul Tasreef.	Cognitive, Recall, Comprehension	MK	Know	Lecture/ Demonstration	Written/ Viva	F&S	II	
(c) Ibn-e-Khateeb.									
CO3	Describe life history of Ibn-e- Khateeb.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	II	
CO3,CO 4	Describe the contributions of Ibne-Khateeb.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
(d) Ibn-e-Baitar.									
CO3	Describe the life history of Ibn-e-Baitar.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	II	
CO3	Describe the contributions of Ibne-Baitar.	Cognitive, Comprehension	MK	Know	Lecture/ Group Discussion	Written/ Viva	F&S	II	
CO4	Explain the importance & contents of Jameul Mufradat.	Cognitive, Recall, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
(e) Ibn-e-Zuhr.									
CO3	Describe life history	Cognitive, Recall	DK	Know	Lecture	Written/	F&S	II	
	of Ibn-e- Zuhr.					Viva			

CO3	Describe the contributions of Ibne-Zuhr.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
CO4	Explain the importance & contents of Kitabul Taiseer.	Cognitive, Recall, Comprehension	MK	Know	Lecture/ Demonstration	Written/ Viva	F&S	II	
TOPIC-09 - ATIBBA MISR-O-SHAM (Lecture:- 2 hours, Non lecture 4 hours)									
(a) Dawood Antaki.									
CO3	Describe life history of Dawood Antaki.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO3	Describe the contributions of Dawood Antaki.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
CO4	Explain the importance & contents of Kitabul Tazkira.	Cognitive, Recall, Comprehension	NK	Know	Lecture/ Demonstration	Written/ Viva	F&S	II	
(b) Ibn-al-Haysham.									
CO3	Describe life history of Ibn-al-Haysham.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO3	Describe the contributions of Ibnal-Haysham.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	

CO4	Explain the importance & contents of Kitabul Manazir.	Cognitive, Recall, Comprehension	MK	Know	Lecture/ Demonstration	Written/ Viva	F&S	II	
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(c) Ibn-al-Qaf Masihi.

CO3	Describe life history of Ibn-al- Qaf Masihi.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	II	
CO3	Describe the contributions of Ibnal-Qaf Masihi.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
CO4	Explain the importance & contents of Kitabul Umda fil Jarahat.	Cognitive, Recall, Comprehension	MK	Know	Lecture/ Demonstration	Written/ Viva	F&S	II	

(d) Ishaq bin Sulaiman Israili.

CO3	Describe life history of Ishaq bin Sulaiman Israili.	Cognitive, Recall	NK	Know	Lecture	Written/ Viva	F&S	II	
CO3	Describe the contributions of Ishaq bin Sulaiman Israili.	Cognitive, Comprehension	DK	Know	Lecture/ Demonstration	Written/ Viva	F&S	II	

TOPIC-10 - TIBBE UNANI HINDUSTAN ME (Lecture:- 10 hours, Non lecture 20 hours)

i) Ahd-e –Tughlaq:

(a)Zia Mohammad Masood Rasheed Zangi.

CO5	Describe life history of Zia Mohammad Masood Rasheed Zangi.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	II	
CO4	Explain the importance & contents of	Cognitive, Recall, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	

	Majmooa-e-Ziyai.								
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ii) Ahd-e-Lodhi:

(a) Bahwa bin Khawas Khan.

CO5	Describe life history of Bahwa bin Khawas Khan.	Cognitive, Recall	DK	Know	Lecture	Written	F&S	II	
CO4	Explain the importance & contents Madinus Shifa Sikander Shahi.	Cognitive, Recall, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	

iii) Ahd-e-Mughliya:

(a) Hakim Ali Gilani.

CO5	Describe life history of Hakim Ali Gilani.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	II	
CO5, CO4	Describe the contributions of Hakim Ali Gilani.	Cognitive, Recall, Comprehension	MK	Know	Lecture/ Group Discussion	Written/ Viva	F&S	II	

(b) Hakim Sadra.

CO5	Describe life history of Hakim Sadra.	Cognitive, Recall	NK	Know	Lecture	Viva	F	II	
CO4, CO5	Describe the contributions of Hakim Sadra.	Cognitive, Recall, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
(c) Hakim Amanullah Khan.									
CO5	Describe life history of Hakim Amanullah Khan.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO5	Describe the contributions of	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
	Hakim Amanullah Khan.								
CO4	Explain the importance & contents Ganj badawar/Qarabadeen-e-Khan Zamani.	Cognitive, Recall, Comprehension	MK	Know	Lecture/ Group Discussion	Written/ Viva	F&S	II	
(d) Hakim Akbar Arzani.									
CO5	Describe life history of Hakim Akbar Arzani.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO4, CO5	Describe the contributions of Hakim Akbar Arzani.	Cognitive, Recall, Comprehension	MK	Know	Lecture/ Demonstration	Written/ Viva	F&S	II	
(e) Hakim Hashim Alwi Khan.									

CO5	Describe life history of Hakim Hashim Alwi Khan.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F& S	II	
CO4, CO5	Describe the contributions of Hakim Hashim Alwi Khan.	Cognitive, Recall, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
(f) Hakim Yusufi.									
CO5	Describe life history of Hakim Yusufi.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	II	
CO4, CO5	Describe the contributions of Hakim Yusufi.	Cognitive, Recall, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
(g) Hakim Shareef Khan.									
CO5	Describe life history	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	

	of Hakim Shareef Khan.					Viva			
CO4, CO5	Describe the contributions of Hakim Shareef Khan.	Cognitive, Recall, Comprehension	MK	Know	Lecture / Demonstration	Written/ Viva	F&S	II	
iv. Qutubshahi Daur:									
(a) Hakim Mir Momin.									
CO5	Describe life history of Hakim Mir Momin.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	II	
CO4, CO5	Describe the contributions of Hakim Mir Momin.	Cognitive, Recall, Comprehension	MK	Know	Lecture/ Demonstration	Written/ Viva	F&S	II	
(b) Hakim ul Mulk Nizamuddin Gilani.									
CO5	Describe life history of Hakim ul mulk Nizamuddin Gilani.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	II	
CO4, CO5	Describe the contributions of Hakim ul mulk Nizamuddin Gilani.	Cognitive, Recall, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
v. Nizamshahi Daur:									
(a) Rustam Jurjani.									
CO5	Describe life history of Rustam Jurjani.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	II	
CO4, CO5	Describe the contributions of Rustam Jurjani.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	

CO4	Explain the importance and	Cognitive, Recall, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
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	contents of Zakheera Nizamshahi.								
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(b) Hakim Wali Gilani.

CO5	Describe life history of Hakim Wali Gilani.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	II	
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CO4, CO5	Describe the contributions of Hakim Wali Gilani.	Cognitive, Recall, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
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vi. Aadilshahi Daur:

(a) Abul Qasim Farishta.

CO5	Describe life history of Abul Qasim Farishta.	Cognitive, Recall	NK	Know	Lecture	Written/ Viva	F	II	
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CO4, CO5	Describe the contributions of Abul Qasim Farishta.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
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CO4	Explain the importance and contents of Akhtiyarat-e- Qasmi.	Cognitive, Recall, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
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vii. Aasif Jahi Daur:

(a) Hakim Raza Ali Khan.

CO5	Describe life history of Hakim Raza Ali Khan.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	II	
CO4, CO5	Describe the contributions of Hakim Raza Ali Khan.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
CO4	Explain the	Cognitive, Recall,	MK	Know	Lecture/	Written/	F&S	II	

	importance and contents of Yadgar-eRazai.	Comprehension			Demonstration	Viva			
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(b) Hakim Shafai Khan.

CO5	Describe life history of Hakim Shafai Khan.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	II	
CO4, CO5	Describe the contributions of Hakim Shafai Khan.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
CO4	Explain the importance and contents of Ilajul Atfal.	Cognitive, Recall, Comprehension	MK	Know	Lecture/ Symposium	Written/ Viva	F&S	II	

viii. Gujrat Ka Mashhoor Tabeeb:

(a) Shahab Abdul Kareem Nagowri.

CO5	Describe life history of Shahab Abdul Kareem Nagowri.	Cognitive, Recall	DK	Know	Lecture	Written/ Viva	F&S	II	
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CO4, CO5	Describe the contributions of Shahab Abdul Kareem Nagowri.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
CO4	Explain the importance and contents of Tibb-eShahabi.	Cognitive, Recall, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
ix. Bartanawi Ahad:									
(a) Hakim Ajmal Khan.									
CO5	Describe life history	Cognitive, Recall	MK	Know	Lecture	Written/	F&S	II	

	of Hakim Ajmal Khan.					Viva			
CO4, CO5	Describe the contributions of Hakim Ajmal Khan.	Cognitive, Comprehension	MK	Know	Lecture/ Seminar	Written/ Viva	F&S	II	
(b) Hakim Abdul Aziz Lucknawi.									
CO5	Describe life history of Hakim Abdul Aziz Lucknawi.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO5	Describe the contributions of Hakim Abdul Aziz Lucknawi.	Cognitive, Comprehension	MK	Know	Lecture/ Group Discussion	Written/ Viva	F&S	II	
(c) Hakim Azam Khan.									
CO5	Describe life history of Hakim Azam Khan.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	II	
CO5	Describe the contributions Hakim Azam Khan.	Cognitive, Comprehension	MK	Know	Lecture/ Group Discussion	Written/Viva	F&S	II	
CO4, CO5	List the important books of Hakim Azam Khan.	Cognitive, Recall	MK	Know	Lecture/ Tutorial	Written/Viva	F&S	II	
(d) Hakim Abdul Hameed.									
CO5	Describe life history of Hakim Abdul Hameed.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	

CO5	Describe the contributions Hakim Abdul Hameed.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	
(e) Abdul Lateef Falsafi.									

CO5	Describe life history of Hakim Abdul Lateef Falsafi.	Cognitive, Recall	MK	Know	Lecture/	Written/ Viva	F&S	II	
CO5	Describe the contributions Hakim Abdul Lateef Falsafi.	Cognitive, Comprehension	MK	Know	Lecture/ Tutorial	Written/ Viva	F&S	II	

(f) Hakim Abdul Haleem Lucknawi.									
CO5	Describe life history of Hakim Abdul Haleem Lucknawi.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO5	Describe the contributions Hakim Abdul Haleem lucknawi.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	

(g) Hakim Ahmad Hussain Usmani.									
CO5	Describe life history of Hakim Ahmad Hussain Usmani.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO5	Describe the contributions Hakim Ahmad Hussain Usmani.	Cognitive, Comprehension	MK	Know	Lecture	Written/ Viva	F&S	II	

x. Chand Digar Mashhoor Atibba:									
(a) Hakim Mohammad Kabiruddin.									
CO5	Describe life history of Hakim Mohammad Kabiruddin.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO5	Describe the contributions Hakim Mohammad	Cognitive, Comprehension	MK	Know	Lecture/ Tutorial	Written/ Viva	F&S	II	
	Kabiruddin.								
(b) Hakim Ghulam Hasnain Kintoori.									
CO5	Describe life history of Hakim Ghulam Hasnain Kintoori.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	II	
CO5	Describe the contributions Hakim Ghulam Hasnain Kintoori	Cognitive, Comprehension	MK	Know	Lecture/ Tutorial	Written/Viva	F&S	II	
(c) Hakim Mohammad Ilyas Khan.									
CO5	Describe life history of Hakim Mohammad Ilyas Khan.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO5	Describe the contributions Hakim Mohammad Ilyas Khan.	Cognitive, Comprehension	MK	Know	Lecture/ Group Discussion	Written/ Viva	F&S	II	
(d) Hakim Abdul Hameed Dehvi.									

CO5	Describe life history of Hakim Abdul Hameed Dehlvi.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO5	Describe the contributions Hakim Abdul Hameed Dehlvi.	Cognitive, Comprehension	MK	Know	Lecture / Group Discussion	Written/ Viva	F&S	II	
(d) Hakim Abdul Razzaq.									
CO5	Describe life history of Hakim Abdul Razzaq.	Cognitive, Recall	MK	Know	Lecture	Written/ Viva	F&S	II	
CO5	Describe the	Cognitive,	MK	Know	Lecture	Written/	F&S	II	
	contributions Hakim Abdul Razzaq.	Comprehension				Viva			
TOPIC-11 - HINDUSTAN KE MASHOOR TIBBI KHANWADE (Lecture:- 2 hours, Non lecture 4 hours) (a) Khandan-e-Shareefi.									
CO5	List the Famous Physicians of Khandan-e- Shareefi.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	III	
CO5	Discuss the contributions of Khandan-e- Shareefi.	Cognitive, Comprehension	MK	Know	Lecture / Group Discussion	Written/Viva	F&S	III	
(b) Khandan-e-Azeezi.									
CO5	List the Famous Physicians of Khandan-e-Azeezi.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	III	

CO5	Discuss the contributions of Khandan-e-Azeezi.	Cognitive, Comprehension	MK	Know	Lecture/ Group Discussion	Written/Viva	F&S	III	
(c) Khandan-e-Usmani.									
CO5	List Famous Physicians of Khandan-e- Usmani.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	III	
CO5	Discuss the contributions of Khandan-e- Usmani.	Cognitive, Comprehension	MK	Know	Lecture/ Group Discussion	Written/Viva	F&S	III	
TOPIC-12- HINDUSTAN MEIN TIBB-E-UNANI KE FAROGH MEIN DARSGAHON KA KIRDAR (Lecture:- 2 hours, Non lecture 4 hours)									
(a) Ayurvedic & Unani Tibbi College, Karol Bagh, Delhi.									
CO6	Describe the historical background of Ayurvedic & Unani	Cognitive, Recall	DK	Know	Lecture	Written/Viva	F&S	III	
	Tibbi College, Delhi.								
CO6	Discuss the importance of Ayurvedic & Unani Tibbi College, Delhi.	Cognitive, Comprehension	MK	Know	Lecture/ Tutorial	Written/Viva	F&S	III	
(b) Ajmal Khan Tibbiya College, Aligarh.									
CO6	Describe the historical background of Ajmal Khan Tibbiya College, Aligarh.	Cognitive, Recall	DK	Know	Lecture	Written/Viva	F&S	III	

CO6	Discuss the importance of Ajmal Khan Tibbiya College, Aligarh.	Cognitive, Comprehension	MK	Know	Lecture/ Tutorial	Written/Viva	F&S	III	
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(c) Takmeelut Tibb College, Lucknow.

CO6	Describe the historical background of Takmeelut Tibb College, Lucknow.	Cognitive, Recall	DK	Know	Lecture	Written/Viva	F&S	III	
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CO6	Discuss the importance of Takmeelut Tibb College, Lucknow.	Cognitive, Comprehension	MK	Know	Lecture/ Tutorial	Written/Viva	F&S	III	
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(d) State Unani Medical College, Prayagraj.

CO6	Describe the historical background of State Unani Medical College, Prayagraj.	Cognitive, Recall	DK	Know	Lecture	Written/Viva	F&S	III	
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CO6	Discuss the importance of State Unani Medical College Prayagraj.	Cognitive, Comprehension	MK	Know	Lecture/ Tutorial	Written/Viva	F&S	III	
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(e) Government Unani Medical College, Patna.

CO6	Describe the historical background of Government Unani Medical College, Patna.	Cognitive, Recall	DK	Know	Lecture	Written/Viva	F&S	III	
CO6	Discuss the importance of Government Unani Medical College, Patna.	Cognitive, Comprehension	MK	Know	Lecture/ Tutorial	Written/Viva	F&S	III	

(f) Jamia Tibbiya/ School of Unani Medical Education & Research, Jamia Hamdard, New Delhi.

CO6	Describe the historical background of Jamia Tibbiya/ School of Unani Medical Education & Research, Jamia Hamdard, New Delhi.	Cognitive, Recall	DK	Know	Lecture	Written/Viva	F&S	III	
CO6	Discuss the importance of Jamia	Cognitive, Comprehension	MK	Know	Lecture/ Tutorial	Written/Viva	F&S	III	

	Tibbiya/ School of Unani Medical Education & Research, Jamia Hamdard, New Delhi.								
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(g) Nizamia Tibbiya College, Hyderabad.

CO6	Describe the historical background of Nizamia Tibbiya College, Hyderabad.	Cognitive, Recall	DK	Know	Lecture	Written/Viva	F&S	III	
CO6	Discuss the importance of Nizamia Tibbiya College, Hyderabad.	Cognitive, Comprehension	MK	Know	Lecture/ Tutorial	Written/Viva	F&S	III	
TOPIC-13.HINDUSTAN MEIN TIBB-E-UNANI KE INTEZAMI WA TEHQIQI SHOBE'JAAT AUR UNKI AHAM KARGUZARIYAN (Lecture:- 2 hours, Non lecture 4 hours)									
(a) AYUSH									
CO6	Describe historical background of AYUSH.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	III	
CO6	Describe roles and responsibilities of AYUSH.	Cognitive, Comprehension	MK	Know	Lecture/ Demonstration	Written/Viva	F&S	III	
(b) NCISM									
CO6	Describe historical background of NCISM.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	III	
CO6	Describe Aims & Objectives of NCISM.	Cognitive, Comprehension	MK	Know	Lecture/ Demonstration	Written/Viva	F&S	III	
(c) CCRUM									
CO6	Describe historical	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	III	
	background of CCRUM.								

CO6	Describe Aims & Objectives of CCRUM.	Cognitive, Comprehension	MK	Know	Lecture/ Group Discussion	Written/Viva	F&S	III	
(d) NIUM									
CO6	Describe historical background of NIUM.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	III	
CO6	Describe Aims & Objectives of NIUM.	Cognitive, Comprehension	MK	Know	Lecture/ Symposium	Written/Viva	F&S	III	
(e) TKDL									
CO6	Describe historical background of TKDL.	Cognitive, Recall	MK	Know	Lecture	Written/Viva	F&S	III	
CO6	Describe Aims & Objectives of TKDL.	Cognitive, Comprehension	MK	Know	Lecture/ Demonstration	Written/Viva	F&S	III	
TOPIC-14 TIBBI AKHLAQIYAT (Lecture:- 4 hours, Non lecture 8 hours)									
(a) Fanne Tibb ki Azmat wa Sharafat.									
CO7	Describe fanne Tibb ki Azmat wa Sharafat.	Cognitive, Comprehension	MK	Know	Lecture/ /Group Discussion	Written/ Viva	F&S	III	
CO7	Illustrate the importance and responsibilities of Atibba.	Cognitive, Comprehension, Affective	MK	Know	Lecture/ Tutorial	Written/ Viva	F&S	III	
(c) Tibbi Akhlaqiyat.									
CO7	Discuss importance of Tibbi Akhlaqiyat.	Cognitive, Comprehension	MK	Know	Lecture/ Group Discussion	Written/Viva	F&S	III	
CO7	Use Tibbi Akhlaqiyat in medical practice.	Cognitive, Comprehension, Application	MK	Know	Lecture/ Symposium	Written/Viva	F&S	III	
(c) Muaheda-e-Buqratiya aur uska pas Manzar.									

CO7	Describe Muaheda-e-	Cognitive,	MK	Know	Lecture/	Written/Viva	F&S	III	
	Buqratiya.	Recall,Affective			Demonstration				
CO7	Discuss historical background of Muaheda-e-Buqratiya.	Cognitive, Comprehension	MK	Know	Lecture/ Symposium	Written/Viva	F&S	III	
(d)Muaheda-e-Buqratiya ke Matan Ka Urdu Tarjuma.									
CO7	Explain Muaheda-e-Buqratiya ke matan ka Urdu Tarjuma.	Cognitive, Comprehension	MK	Know	Lecture/Demonstration	Written/Viva	F&S	III	
(e) Atibba ke Aausaf.									
CO7	Describe characteristics of Atibba.	Cognitive, Comprehension,Affective	MK	Know	Lecture/ Group Discussion	Written/Viva	F&S	III	
(h) Mutallameen-e-Tibb Ke Aausaf.									
CO7	Describe characteristics of mutallameen-e-Tibb.	Cognitive, Comprehension, Affective	MK	Know	Lecture/ Group Discussion	Written/Viva	F&S	III	
(i) CCIM ka Marattab karda zabta-e-Akhlaq barae Tabeeb.									
CO7	Describe zabta-eAkhlaq constituted by CCIM for physicians.	Cognitive, Comprehension, Affective	MK	Know	Lecture/ Symposium	Written/Viva	F&S	III	
CO7	Describe &Use CCIM ka zabta akhlaq in medical practice.	Cognitive, Comprehension, Affective	NK	Know	Lecture / Group Discussion	Written/Viva	F&S	III	
(j) Unani Atibba ke Akhtiyarat.									

CO7	Describe Unani Atibba ke Akhtiyarat.	Cognitive, Comprehension, Affective	MK	Know	Lecture/ Group Discussion	Written/Viva	F&S	III	
(i) Ghair Akhlaqi Tababat.									
CO7	Describe Ghair Akhlaqi Tababat.	Cognitive, Recall, Affective	MK	Know	Lecture/ Group Discussion	Written/ Viva	F&S	III	

Table 4 Learning objectives (Practical) Not applicable**Table 5- Non Lecture Activities of Tareekhe Tib UNIUG-TT**

Sr No	List non lecture Teaching-Learning methods	No of Activities
1	Demonstration through chart & models	33
2	Educational Video	4
3	Visit to Library	3
4	Tutorial	18
5	Seminar	4
6	Symposium	9
7	Group Discussion	29
Total		100

Table 6: Assessment Summary**6 A - Number of papers and Marks Distribution**

S.No.	SUBJECT	PAPERS	THEORY	PRACTICAL / CLINICAL ASSESSMENT					GRAND TOTAL
				PRACTICAL/ CLINICAL	VIVA	ELECTIVES	IA	TOTAL	
1.	Tareekhe Tib (History of Medicine)	1	100	-	30	-	20	50	150

6. B - Scheme of Assessment (formative and Summative)

SR.NO.	PROFESSIONAL COURSE	DURATION OF PROFESSIONAL COURSE		
		First Term (1-6 Months)	Second Term (7-12 Months)	Third Term (13-18 Months)
1	First	3 PA & First TT	3 PA & Second TT	3 PA & UE

PA: Periodical Assessment; TT: Term Test; UE: University Examinations

6 C - Calculation Method for internal assessment Marks (20 Marks)

TERM	PERIODICAL ASSESSMENT				TERM TEST	TERM ASSESSMENT	
	A	B	C	D		E	F

	1 (20)	2 (20)	3 (20)	Average (A+B+C/3)	Term Test (MCQ+SAQ+LAQ)	Sub Total	Term Assessment
				20	And Practical (Converted to 20)		
FIRST						D+E	D+E /2
SECOND						D+E	D+E /2
THIRD					NIL	D	D
Final IA	Average of Three Term Assessment Marks as Shown in 'G' Column						

6 D - Evaluation Methods for Periodical Assessment

S. No.	Evaluation Methods
1.	Practical / Clinical Performance
2.	Viva Voce, MCQs, MEQ (Modified Essay Questions/Structured Questions)
3.	Open Book Test (Problem Based)
4.	Summary Writing (Research Papers/ Samhitas)
5.	Class Presentations; Work Book Maintenance
6.	Problem Based Assignment
7.	Objective Structured Clinical Examination (OSCE), Objective Structured Practical Examination (OPSE), Mini Clinical Evaluation Exercise (Mini-CEX), Direct Observation of Procedures (DOP), Case Based Discussion (CBD)
8.	Extra-curricular Activities, (Social Work, Public Awareness, Surveillance Activities, Sports or Other Activities which may be decided by the department).
9.	Small Project
10.	Other activities explained in Table 3 Column G3 as per indicated term.

6 E - Question Paper Pattern

I PROFESSIONAL BUMS EXAMINATIONS

UNIUG-TT

PAPER (Theory)

Time: 3 Hours Maximum Marks: 100

INSTRUCTIONS: All questions compulsory

		Number of Questions	Marks per question	Total Marks
Q 1	Multiple Choice Questions (MCQ)	20	1	20
Q 2	Short answer questions (SAQ)	8	5	40
Q 3	Long answer questions (LAQ)	4	10	40

				100
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6 F - Distribution of Theory examination

	A List of Topics	B Term	C Marks	D Type of Questions "Yes" can be asked. "No" should not be asked.		
				MCQ (1Mark)	SAQ (5 Marks)	LAQ (10 Marks)
1.	طب اور اس کی اہمیت تاریخ (Tareekh-e-Tibb aur iski Ahmiyat)	I				
2.	فن طب کی ابتدا اور اس کے اولین مراکز (Fanne Tibb ki Ibteda aur iske Awwaleen Marakiz) a. ت اہلی و آ شوری طب (Babuli wa Aashuri Tibb) b. مصری طب (Misri Tibb) c. چینی طب (Cheeni Tibb) d. ہندی طب / آیورو ویدا (Hindi Tibb/Ayurveda) e. ای ا نی طب اور مدرسہ (Irani Tibb aur Madrasa Jundi Shapur) f. یوتا نی طب (Unani Tibb) جندی شاپور	I	10	Yes	No	Yes
3.	یوتا نی طب ما قبل بقراط (Unani Tibb ma Qabl Buqrat) a. اسقلی بیوس (Asqalibiyoos)	I	05	Yes	Yes	No
4.	بقراط اور اس کے بعد کے یوتا نی اطباء (Buqrat aur uske baad ke Unani Atibba) a. بقراط (Buqrat) b. ارسطو (Arastu) c. ہروفیلوس (Herofiloos.) d. ای اسسٹر (Erasistratoos) e. مدرسہ (Madrasa Askandriya) اطوس اسکندریہ	I	05	Yes	Yes	No
5.	رومی طب اور تازنطینی (Roomi Tibb aur Bazantini Tibb) a. دی سقوریدوس (Desqooridoos) طب b. جالینوس (Jalinoos)	I	05	Yes	Yes	No

6.	طِب	عربی (Arabi Tibb)	I	15	Yes	Yes	Yes
		.V عہد جاہلیت (Ahd-e- Jahiliyat)					
		a. حارث بن کلدہ (Haris bin Kilda)					
		.VI طب نبوی (Tibb- e- Nabwi)					
		.VII دور اموی (Daur Umwi)					
		a. جا بین حیان (Jabir bin Hayyan)					
		b. خالد بن ی یذ (Khalid bin Yazeed)					
		.VIII عباسی دور (Abbasi Daur)					
		a. بیت الحکمت (Baitul Hikmat)					

		b. یوحنا بن ماسویہ (Yohanna bin Masawayh)					
		c. حنی بن اسحاق (Hunain bin Ishaq)					
		d. تاب بن قہ (Sabit bin Qurra)					
		e. یعقوب بن اسحاق (Yaqoob bin Ishaq)					
		f. قسطا بن لوقا (Qusta bin Luqa)					
		g.					
		h. جبرائیل بن بحانی سوع (Jibrayeel bin Bakhtishu)					
		بغداد میں ہندوستانی اطباء کی آمد اور آیورویڈک کتابوں کے ی جیے (Baghdad mein Hindustani Atibba ki Aamad aur Ayurvedic Kitabon ke Tarjume)					

7.	<p>وسطی میں (Tibb Quroon-e-Usta mein)</p> <p>طب ق و ن علی بن رین طبری (Ali bin Rabban Tabri) .a احمد بن محمد طبری (Ahmad bin Mohammad Tabri) .b محمد بن زکرت ارازی (Mohammad bin Zakariya Razi) .c علی بن عباس مجوسی (Ali bin Abbas Majoosi) .d ابن سینا (Ibn-e-Sina) .e ابومنصورنوح القمیری (Abu Mansoor Nooh al Qamri) .f ابوسهل مسیحی (Abu Sahal Masihi) .g اسماعیل ج جانی (Ismail Jurjani) .i نجیب الدین سمرقندی (Najeebuddin Samarqandi) .j علاء الدین ق شی (Alauddin Qarshi) .k نفیس بن عوض کرمانی (Nafees bin Awz kirmani) m علی بن عیسی کحال (Ali bin Isa Kahhal) .n ابن ہبل بغدادی (Ibn-e-Hubal Baghdadi) .o ابن ج لہ (Ibn-e-Jazla) .p ابن بطلان (Ibn-e-Butlan) .q عبد اللطیف بغدادی (Abdul Lateef Baghdadi) .r کمال الدین ای ا (Kamaluddin Irani) نی (Mahmood Aamli) محمود آملی</p>	II	15	Yes	Yes	Yes
8.	<p>اطبہ اے اندلس (Atibba Undulus)</p> <p>ابن رش (Ibn-e-Rushd) .a ابوالقاسم زہ اوی (Abul Qasim Zahrawi) .b ابن خطیب (Ibn-e-Khateeb) .d ابن ببطار (Ibn-e-Baitar) .e ابن زہ (Ibn-e-Zuhr)</p>	II	05	Yes	Yes	No
9.	<p>اشم اطباء مصر و (Atibba Misr wa Sham)</p> <p>a. داؤد انکی (Dawood Antaki) b. ابن ہ ی سم (Ibn-e-Haysham) c. ابن القف مسیحی (Ibn-al-Qaf Masihi) d. اسح ق بن سلیمان اسرائیلی (Ishaq bin Sulaiman Israili)</p>	II	05	Yes	Yes	No
10.	<p>طب یوتا نی ہندوستان میں (Tibb-e-Unani Hindustan main)</p> <p>a. عہد تغل (Ahd-e-Tughlaq)</p>	II	15	Yes	Yes	Yes

a. ضیاء محمد مسعود رشید (Zia Mohammad Masood Rasheed Zangi) زنگی

.II عہد لودھ (Ahd-e-Lodhi)

a. بہوہ بن خواص خان (Bahwa bin Khawas Khan)

.III عہد مغلیہ (Ahd-e-Mughliya)

a. حکیم علی گیلانی (Hakim Ali Gilani)

b. حکیم صدرا (Hakim Sadra)

c. حکیم امان اللہ خان (Hakim Amanullah Khan)

d. حکیم اکبر ارزا نی (Hakim Akbar Arzani)

e. حکیم ہاشم علوی خان (Hakim Hashim Alwi Khan)

f. حکیم یوسفی (Hakim Yusufi)

g. حکیم شریف خان (Hakim Shareef Khan)

.IV

(Qutub Shahi Daur) قطب شاہی دور

a. حکیم میر موم (Hakim Mir Momin)

b. حکیم الملک نظام الدین گیلانی (Hakim-ul-mulk Nizamuddin Gilani)

.V

(Nizam Shahi Daur) نظام شاہی دور

a. رستم ج جانی (Rustam Jurjani)

b. حکیم ولی گیلانی (Hakim Wali Gilani)

.VI

(Aadil Shahi Daur) عادل شاہی دور

a. ابوالقاسم قشت (Abul Qasim Farishta)

.VII آصف جاہی دور (Aasif Jahi Daur)

a. حکیم رضا علی خان (Hakim Raza Ali Khan)

b. حکیم شفا ئی خان (Hakim Shafai Khan)

.VIII گجرات ک مشہور طبیب (Gujrat ka Mashhoor Tabeeb)

a. شہاب عبد الکریم ناگوری (Shahab Abdul Kareem Nagowri)

.IX ی طانوی عہد (Bartanawi Ahad)

a. حکیم اجمل خان (Hakim Ajmal Khan)

b.

c. حکیم عبد العزی لکھنوی (Hakim Abdul Aziz Lucknawi)

c. حکیم اعظم خان (Hakim Azam Khan)

d. حکیم عبد الحمید (Hakim Abdul Hameed)

e. حکیم عبد الطیف فلسفی (Hakim Abdul Lateef Falsafi)

f. حکیم عبد الحلیم لکھنوی (Hakim Abdul Haleem Lucknawi)

g. حکیم احمد حسین عثمانی (Hakim Ahmad Husain Usmani)

.X چند دیگر مشہور اطباء (Chand Digar Mashhoor Atibba)

a. حکیم محمد کبیر الدین (Hakim Mohammad Kabiruddin)

b.

c. حکیم غلام حسنین ک (Hakim Ghulam Hasnain Kintoori)

c. حکیم محمد الیاس خان (Hakim Mohammad Ilyas Khan)

d. حکیم عبد الحمید دہلوی (Hakim Abdul Hameed Dehvi)

	e. حکیم عبد الرزاق (Hakim Abdul Razzaq)					
11.	ہندوستان کے مشہور طبی خانوادے (Hindustan ke Mashoor Tibbi Khanwade) a. خاندان شریفی (Khandan-e-Shareefi) b. خاندان عز بی (Khandan-e-Azeezi) c. خاندان عثمانی (Khandan-e-Usmani)	III	05	Yes	Yes	No
12.	ہندوستان میں طب یونانی کے قوغ میں درس گاہوں کا کردار (Hindustan mein Tibb-e-Unani ke Farogh mein Darsgahon ka Ki dar) a. ایف ایچ یو طبیہ کالج، ق ول (A& U Tibbi College Karol Bagh Delhi) b. ایف ایچ یو طبیہ کالج، ق ول (A& U Tibbi College Karol Bagh Delhi) c. ایف ایچ یو طبیہ کالج، ق ول (A& U Tibbi College Karol Bagh Delhi) d. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) e. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) f. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) g. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) h. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) i. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) j. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) k. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) l. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) m. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) n. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) o. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) p. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) q. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) r. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) s. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) t. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) u. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) v. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) w. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) x. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) y. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh) z. ایف ایچ یو طبیہ کالج، علی (Ajmal Khan Tibbiya College, Aligarh)	III	05	Yes	Yes	No
13.	ہندوستان میں طب یونانی کے انتظامی و تحقیقی سعی نہ جات اور ان کی اہم کر گزاراں (Hindustan mein Tibb-e-Unani ke Intezami wa Tehqiqi Shobajat aur unki Aham Karguzariya) a. آیوش (AYUSH) b. این سی۔ آئی۔ ایس۔ c. ایم (NCISM) سی سی۔ آئی۔ d. یو۔ ایم (CCRUM) این۔ آئی۔ e. یو۔ ایم (NIUM) ٹی۔ کے۔ ڈی۔ ای (TKDL)	III	05	Yes	Yes	No

14.	<p>(Tibbi Akhlaqiyat) طبى اخلا</p> <p>a. ن طب كى عظمت اور (Fanne Tibb ki Azmat aur Sharafat) قيات</p> <p>b. شرافت</p> <p>c. طبى اخلاقيات (Tibbi Akhlaqiyat)</p> <p>d. معاہدہ بقراطیہ اور اس ك (Muaheda-e-Buqratiya aur Uska pas) پس منظر</p> <p>e. Manzar)</p> <p>f. g.</p> <p>h. معاہدہ بقراطیہ كے متن ك اردو (Muaheda-e-Buqratiya ke Matan ka Urdu Tarjuma) ی جم</p> <p>i. اطباء كے اوصاف (Attiba ke Aausaf)</p> <p>منعلم ای ن طب كے اوصاف (Mutallmeen-e-Tibb ke Aausaf)</p> <p>سى سى - آى - ایم كے مر ب كردہ ضابطہ (CCIM ke Marattab) كarda Zabta-e-Akhlaq اخلاق ی ائے طبیب barae Tabeeb)</p> <p>یو تانی اطباء كے اختیارات (Unani Atibba ke Akhtiyarat) غیر اخلاقی طبیا ب (Ghair Akhlaqi Tababat)</p>	III	05	Yes	Yes	No
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6 G - Question Paper blueprint

A Question Sr. No	B Type of Question	C Question Paper Format
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.Q1	<p>Multiple choice Questions (MCQ)</p> <p>20 Questions 1 mark each All compulsory</p> <p>Must know 15 MCQ Desirable to know 3 MCQ Nice to know 2 MCQ</p>	<ol style="list-style-type: none"> 1. Topic number -1 2. Topic number-2 3. Topic number-3 4. Topic number-4 5. Topic number-5 6. Topic number-6 7. Topic number-7 8. Topic number-8 9. Topic number-9 10. Topic number-10 11. Topic number-11 12. Topic number-12 13. Topic number-13 14. Topic number-14 15. Topic number- 2 16. Topic number-4 17. Topic number-6 18. Topic number-7 19. Topic number-10 20. Topic number-13
Q2	<p>Short answer Questions (SAQ)</p> <p>Eight Questions 5 Marks Each All compulsory</p> <p>Must know 7 SAQ Desirable to know 1 SAQ No Questions on Nice to know</p>	<ol style="list-style-type: none"> 1. Topic no. 3/ Topic no.4 2. Topic no.5 3. Topic no.7/ Topic no.6 4. Topic no.8/Topic no.9 5. Topic no.10 6. Topic no.11/12 7. Topic no.13 7. Topic no.14 8.
Q3	<p>Long answer Questions (LAQ)</p> <p>Four Questions 10 marks each All compulsory All questions on must know No Questions on Nice to know and Desirable to know</p>	<ol style="list-style-type: none"> 1. Topic no.2 2. Topic no.6 3. Topic no.7 4. Topic no.10

6 H - Distribution of Practical Examination

SN	Heads	Marks
1	Viva Voce	30
2	Internal	20
3	Electives	--

Total Marks	50
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Table 7. Reference Books/Resources:

S.No	Name of the book	Language	Author/Translator
1.	عيون الانباء في طبقات الاطباء Uyunul Amba fil Tabqatul Atibba	Urdu	ابن ابى اص بى ع ه/سى سى آرىوايم Ibn Abi Usaiba/CCRUM
2.	مختصر تاريخ الطب العربى Mukhtasar Tareekh ut Tibb Al Arabi	Arabic	كمال سا مرأى Kamal Samarrai
3.	طبقات الاطباء والحكماء Tabaqat Al Atibba wa Al Hukma	Urdu	ابن جليح ل/حكيم عبد البارى Ibne Juljul/ Hakim Abdul Bari
4.	اطباء اور ان كى مسيحائى Atibba aur unki Masihai	Urdu	مختار احمد اصلاح Mukhtar Ahmad Islahi
5.	اطباء عهد مغليه Atibba Ahde Mughliya	Urdu	كوى چا ند پورى Kausar Chandpuri
6.	تاريخ الاطباء Tareekh al Atibba	Urdu	غلام جيلانى Ghulam Jilani
7.	بيت الحكمت كى طبى خدمات Baitul Hikmat ki Tibbi Khidmat	Urdu	وسيم احمد اعظم Wasim Ahmad Azmi
8.	تاريخ طب اور اطباء دور مغليه Tareekhe Tibb aur Atibba daure Mughliya	Urdu	حكيم الطاف احمد اعظم Hakim Altaf Ahmad Azmi
9.	تاريخ طب (ابتدا تا عه حاضر) Tareekhe Tibb (Ibtada ta ahde Hazir)	Urdu	سيد حسان نگرامى Sayyed Hassan Nigrami
10.	تاريخ طب و اخلاقيات Tareekhe Tibb wa Akhlaqiyat	Urdu	اشهر قدى Ashhar Qadeer
11.	تاريخ طب و اطباء قديم Tareekhe Tibb wa Atibba Qadeem	Urdu	على حيدر جعفرى Ali Haider Jafri
12.	طب يونانى اور هندوستان Tibbe Unani aur Hindustan	Urdu	اشهر قدى Ashhar Qadeer
13.	كليات طب كى مصادر ومراج Kulliyat e tibb ke Masadir-o-Marajeh	Urdu	رضى الاسلام ندوى Raziul Islam Nadwi

14.	طبی صحائف Tibbi Sahaif	Urdu	اشہر قدی Ashhar Qadeer
15.	رموز الاطباء Rumooz Al Atibba	Urdu	محمد فیروز الدین Mohammad Firozuddin
16.	تاریخ الحکماء Tareekh al Hukma	Urdu	جمال الدین قفطی Jamaluddin Qifti
17.	قون وسطی میں مسلمانوں کی علم خدمات Qaroon wasta mein Musalmano ki Ilmi Khidmat	Urdu	مولوی عبدالرحمن Maulvi Abdur Rehman
18.	عہد جاہلیت میں عرب فن طب Ahde Jahiliyat mein Arab Fanne Tibb	Urdu	ڈاکٹر غیاث الدین Dr.Ghayasuddin
19.	تاریخ طب Tareekhe Tibb	Urdu	آغا اشرف Agha Ashraf
20.	ہندوستان میں طب یونانی کا آغاز و ارتقاء Hindustan mein Tibb-e-Unani ka Aghaz wa Irtiqaa	Urdu	حکیم الطاف احمد اعظم Hakim Altaf Ahmad Azmi
21.	طب العرب Tibbul Arab	Urdu	ای جی یوآن/ علی احمد نوا سطی E.G.Brown/Ali Ahmad Nayyar Wasti
22.	ہندوستان کے مشہور اطباء Hindustan ke Mashhoor Atibba	Urdu	حکیم حافظ حبیب الرحمان Hakim Hafiz Habibur Rahman
23.	Introduction to the History of Science	English	George Sarton
24.	History of Unani System of Medicine	English	Altaf Ahmad Azmi
25.	Unani Medical Literature Produced from Hippocratic Period (Fl. 462 BC) to 8 th Century A.D.	English	Ashfaque Ahmad National Institute of Indian Medical Heritage, Hyderabad
26.	History and Accounts of Literature Written in Unani Medicine 9 th to 12 th Century	English	Ashfaque Ahmad National Institute of Indian Medical Heritage, Hyderabad
27.	Unani Medical Literature Produced from 13 th Century to 16 th Century	English	Ashfaque Ahmad National Institute of Indian Medical Heritage, Hyderabad

Arabic		
	Book Name	Author
1	Tibbi Arabi Reader	Dr Mohd Raziul Islam Nadvi
2	Tamreen-us-Sarf	Moulana Moinullah Nadvi
3	Arabi ka Muallim Part 1 and 2	Moulana Abdul Sattar Khan
4	Kitabus Sarf	Hafiz Abdur Rahman Amratsari
5	Minhajul Arabiya Part 1 and 2	Sayyed Nabi Hydrabadi
6	Durusul Lugatul Arabiya Part1	DR F Abdurraheem

Urdu		
	Book Name	Author
1	Urdu Zaban Ka Qayeda	Khan Sahab Moulvi Mohammed Ismail
2	Ashrafi Urdu Qawaid	Fazal Ahmed Ashrafi
3	Nigar-e-Urdu	Dr Shakeelur Rahman
4	Aasan Urdu Grammer	Dr Moulavi Abdul Haq
5	Hamari kitab	Afzal Husain

Mantiq wa Falsafa		
	Book Name	Author
1	Mabadiyat-e-Mantiq Wa Falsafa	Hakeem Taskheer Ahmed
2	Nisabul Mantiq	Majlisul Madinatul Ilmiya
3	Taiseerul Mantiq	Moulana Abdullah Gangohi
4	Al-Mirqat	Allama Mohammed Fazal Imam Khairabadi
5	Jawahirul Mantiq	Allama Badruddin Ahmed Alqadri Almisbahi

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2. Allama Mohammad Kabiruddin (1934) - Kulliyat-e-Nafisi - Idara Kitab-ul-Shifa, New Delhi.
3. Ali ibn Rabban Tabri (2010) - Firdaus-al-Hikmat fil Tibb - Idara Kitab-ul-Shifa, New Delhi.
4. Allama Mohammad Kabiruddin (2006) - Kulliyat-e-Qanoon - Ajaz Publishing House. Darya Ganj, New Delhi.
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9. Prof. Hkm. Syed Zillur Rahman (2008) - Kitab fil Mizāj - Ibn Sina Academy, Aligarh.
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11. Abu Sahl Masihi (2008) - Kitāb al-Miyat - CCRUM, New Delhi,
12. Prof. Mohammad Zulkifli (2020) - Itlaqi Kulliyāt - NIUM, Bangalore.
13. Ibn e Hubal Baghdadi (2005) - Kitab al Mukhtarāt fit Tib - CCRUM. New Delhi
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17. Prof. Syed Ishtiyag Ahmad (1980) - Introduction to Umūr Tabī‘iyyat - Tibbiya College, Karol Bagh, New Delhi.
18. Ali Ibn Abbas Majoosi (2010) - Kaamil-as- Sina’ah - Idara Kitab-ul-Shifa. New Delhi.
19. Dr. Mohd. Aslam Khan (2008) – Umoor-e-Tabiya – Idara Kitab-ul-Shifa, New Delhi.
20. Hakim Asrarul Haq (2014)-Umoor-e-Tabiya - – Idara Kitab-ul-Shifa, New Delhi.

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4. Kim E Barret, Susan M Burman et al (2019) Ganong's Review of Medical Physiology, California, Mc Graw Hill Publication.
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6. Bruce M. Koeppen, Bruce A. Stanton (2017) Berne & Levy Physiology, USA, Elsevier Health Sciences
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11. Iqtidarul Hasan Zaidi (2015) Manafeul Aza (Ghiza, Hazm, Istihala wa Ikhraj) New Delhi, Idare Kitabushifa
12. GhulamMuntaqa (2015) Darsi Manafeul Aza (Blood), New Delhi, Idare Kitabushifa
13. Farooq Ahmed Daar (2020) Munafeul Aza, New Delhi, NCPUL

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2. Ubaidullah, Anatomy Regional and Applied Head and Neck (2015), New Delhi, NCPUL
3. Ubaidullah, Anatomy Regional and Applied Upper Limb (2015), New Delhi, NCPUL
4. Ubaidullah & Mohd Asif, Anatomy Regional and Applied Lower Limb (2015), New Delhi, NCPUL
5. Ubaidullah & Ansari A. Moghees, Anatomy Regional and Applied Thorax (2015), New Delhi, NCPUL
6. Abu Kashif Anwar, General Anatomy (First Edition) ()
7. Ibn Sina, Al-Qanoon fit Tib (Jild Awwal) (2015), New Delhi, Ajaz publishing House
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9. Hakim Kabiruddin, Tashreeh Sagheer (1933) Delhi, Daftarul Maseeh
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12. Beliram LMS, Tashreeh e Insani
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