



UNIVERSITY OF JAMMU

(NAAC ACCREDITED A++ GRADE UNIVERSITY)
Baba Sahib Ambedkar Road, Jammu-180006 (J&K)

Email: academicsectionju14@gmail.com

NOTIFICATION

(25/Jan./Adp/84)

It is hereby notified for the information of all concerned that the Vice-Chancellor, in anticipation of the approval of the Academic Council, has been pleased to authorize the adoption of the Syllabi of **1st Prof. of Bachelor of Medicine and Bachelor of Surgery (MBBS)** of the following subject for the Examinations to be held in the years 2024-25, 2025-26 and 2026-27 (as given in Annexure):-

1. Anatomy
2. Physiology
3. Biochemistry

The Syllabi of the courses is available on the University Website:
www.jammuuniversity.ac.in

-Sd-

Dean Academic Affairs

No. F.Acd/III/25/14226-235
Dated: -14/01/2025

Copy for information & necessary action to:-

1. Principal & Dean, Faculty of Medical Science.
2. Principal, ASCOMS, Sidhra, Jammu
3. Sr. P.A to the Controller of Examinations.
4. All Members of the concerned Board of Studies.
5. C.A to C.E
6. Deputy/Assistant Registrar (Exams. Prof./Confidential/Evaluation Prof.).
7. Incharge, University Website.

Sumita Sharma
Joint Registrar (Academic) 14/01/2025

SS 14/1/25
Rals 14/01/2025

Annexure

PHYSIOLOGY DEPARTMENT GOVT MEDICAL COLLEGE JAMMU

FIRST PROF. MBBS (PHASE-1) TO BE HELD IN YEAR
2024-25, 2025-26, 2026-27

Course - 1st prof. MBBS/Phase-1
Title: Physiology
Course no: Paper-I MBPHY000I PAPER II MBPHY000 II
Duration: 03 Hours.

Maximum Marks : 100
Theory (Paper -I-100 Marks
(Paper -II-100 Marks)

DISTRIBUTION OF COURSE FOR THEORY PAPERS (PHYSIOLOGY)

NOTE FOR PAPER SETTING

The question paper will contain questions spread over the entire syllabus & the candidates will be required to attempt all questions. Format of theory paper will be same & region-wise distribution is as follows

PAPER I

- CNS
- Special Senses
- Nerve Muscle Physiology
- ANS
- Digestive System & Liver
- Excretory System
- Fluid Electrolyte, Acid Base Balance
- Temperature Regulation & Skin
- AETCOM topic allotted to Physiology (annexure attached)

PAPER-II

- General Physiology
- CVS & Tissue Fluid, Lymph
- Respiratory System, High altitude & Deep-sea Physiology
- Endocrine System
- Reproductive System
- Nutrition & Metabolism
- Blood & Immunity
- Integrated Physiology, Heredity & Genetics, Senescence & Growth
- AETCOM topic allotted to Physiology (annexure attached)



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Professor & Head
Department of Physiology
Govt. Medical College, Jammu

NOTE FOR PAPER SETTING

The question paper will contain questions spread over the entire syllabus & the candidates will be required to attempt all questions. Format of theory paper will be same & region-wise distribution is as follows: -

DISTRIBUTION OF MARKS:

Paper-I (100)	Paper II (100)
CNS, Special Senses, ANS = 40 marks	CVS, Blood & Immunity, Tissue fluid, Lymph = 35 marks
Excretory System, Acid Base Balance, Fluid & Electrolyte = 25 marks	Respiratory System, High altitude & deep-sea Physiology = 15 marks
Digestive System & Liver, Nerve Muscle, Temperature Regulation = 30 marks	Endocrine System, Nutrition & Metabolism = 25 marks
AETCOM module (1.2) = 5 marks	Reproduction, General Physiology, Integrated Physiology, Genetics, Growth & Ageing = 20 marks
	AETCOM (1.3) = 5 marks



**FIRST PROF. MBBS (PHASE-1) TO BE HELD IN YEAR
2024-25,2025-26,2026-27**

Course -1st prof. MBBS/Phase-1

Title: Physiology

Course no: Paper-I **MBPHY0001** PAPER II **MBPHY000 II**

Duration: 03 Hours.

Maximum Marks : 100

Theory (Paper -I-100 Marks


(Paper -II-100 Marks)

INSTRUCTIONS FOR PAPER SETTERS: -PAPER -I/ PAPER -II.

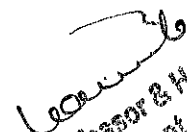
- 1) Paper - I to be set by external examiner and Paper- II by internal examiner and each will carry 100 marks. (Copy of Syllabus enclosed).
- 2) All Questions are compulsory.
- 3) Attempt Questions in serial order.
- 4) Illustrate your answers with well labelled diagrams wherever necessary.
- 5) MCQ's should not be more than 20% of entire Paper.

FORMAT OF THEORY PAPER: -

Type of Question/Number of Questions		Marks per Question
Q.no-1	Scenario based MCQ/10-20	1-2
Q.no-2	Long essay question/ONE	10-12
Q.no-3	Reasoning Questions/ FIVE	03
Q.no-4	Short notes (applied aspects)/FOUR All four subparts related to six integrated modules. However, if a subject has less competencies in integrated module then atleast 2 sub-parts from integrated modules.	4-5
Q.no-5	Short notes/THREE	5-6
Q.no-6	Short notes/FOUR (One subpart of 5 marks from AETCOM)	4-5



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Professor & Head
Department of Physiology
Govt. Medical College, Jam

PHYSIOLOGY DEPARTMENT GOVT MEDICAL COLLEGE JAMMU

FIRST PROF. MBBS (PHASE-1) TO BE HELD IN YEAR
2024-25, 2025-26, 2026-27

Course - 1st prof, MBBS/Phase-1
Title: Physiology
Course no: Paper-I **MBPHY000I** PAPER II **MBPHY000 II**
Duration: 03Hours.

Maximum Marks : 100
Theory (Paper -I-100 Marks)
(Paper -II-100 Marks)

**LIST OF BOOKS PRESCRIBED FOR 1ST PROF MBBS OF
SUBJECT PHYSIOLOGY**


- Guyton & Hall Textbook of Medical Physiology by John E. Hall (Latest Edition)

OR

- Comprehensive Textbook of Physiology. Vol 1 & Vol 2 by Dr. G.K. Pal, Dr. Pravati Pal, Dr. Nivedita Nanda (Latest Edition)

OR

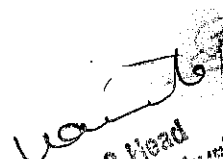
- Text book of Physiology (Volume I&II) by Dr. A.K. Jain (Latest Edition)
- Ghai's Textbook of Practical Physiology by C.L. Ghai (Latest Edition)
- Manual Of Practical Physiology for MBBS by Dr. A.K. Jain (Latest Edition)

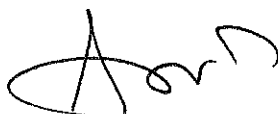

Professor & Head
Department of Physiology
Govt. Medical College, Jammu



AETCOM Competencies for First MBBS

Subject	Competency Number	Competency
Anatomy	Module 1.5	The cadaver as our first teacher. Demonstrate respect and follow the correct procedure when handling cadavers and other biologic tissue.
	Module 1.1	Identify, discuss Physician's role and responsibility to society and the community that he serves.
Physiology	Module 1.2.	Demonstrate empathy in patient encounters.
	Module 1.3	
	Module 1.4	Demonstrate ability to communicate to patients in a patient, respectful, non-threatening, non-judgmental and empathetic manner.
Biochemistry	Module 1.1.	Enumerate and Describe the role of a Physician in health care system.
	Module 1.1	Describe and discuss the commitment to lifelong learning as an important part of Physician growth.


 Professor & Head
 Department of Physiology
 Govt. Medical College, Jam



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Annexure 1

AETCOM Modules teaching and assessment

The tables below show the suggested AETCOM blueprinting for various university papers and for module leader/in-charge for coordinating Module teaching. Each module leader/in-charge should select a multi-subject team and then the module is taught by various members of the team. The module teaching learning activities should be planned and conducted by this team.

Assessment: All internal and University exams must have one question/application based question on AETCOM in each theory paper (5%) and it should be assessed in various components of practical/clinical exams.

AETCOM Phase 1		
Subject	Paper	Module number
Anatomy	Paper 1	1.5
	Paper 2	1.4 Foundations of communications
Physiology	Paper 1	1.2
	Paper 2	1.3
Biochemistry	Paper 1	1.1 <ul style="list-style-type: none"> • Enumerate and describe professional qualities and roles of a physician. • Describe and discuss commitment to lifelong learning as an important part of physician growth.
	Paper 2	1.1 <ul style="list-style-type: none"> • Describe and discuss the role of a physician in health care systems. • Identify and discuss physician's role and responsibility to society and the community that she/he serves.

AETCOM Phase 2		
Subject	Paper	Module number
Microbiology	Paper 1	2.1
	Paper 2	2.8
Pharmacology	Paper 1	2.2, 2.3
	Paper 2	2.5
Pathology	Paper 1	2.4
	Paper 2	2.7

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Annexure 8

Marks distribution for various subjects for University Annual Examinations

Phase of Course	Theory	Practicals	Passing criteria
Phase-I MBBS			Mandatory to get 40% marks separately in theory and in practicals; and totally 50% for theory plus practicals.
Anatomy- 2 papers	Paper 1- 100 Paper 2 -100	100	
Physiology- 2 papers	Paper 1- 100 Paper 2 -100	100	
Biochemistry- 2 papers	Paper 1- 100 Paper 2- 100	100	
Phase-II MBBS			
Pathology - 2 papers	Paper 1- 100 Paper 2 -100	100	
Microbiology- 2 papers	Paper 1- 100 Paper 2- 100	100	
Pharmacology- 2 papers	Paper 1 -100 Paper 2- 100	100	
Phase-III MBBS part 1			
Forensic Medicine and Toxicology- 1 paper	Paper 1 - 100	100	
Community Med - 2 papers	Paper 1 -100 Paper 2- 100	100	
Otorhinolaryngology	Paper-1 100	100	
Ophthalmology	Paper-1 100	100	
Phase-III MBBS part 2			
Medicine & allied	Paper 1- 100 Paper 2- 100	100	
Surgery & allied	Paper 1- 100 Paper 2- 100	100	
Obstetrics and Gynecology	Paper 1- 100 Paper 2- 100	100	
Pediatrics	Paper-1 100	100	

Medicine & allied Paper-2 to have Medicine 50%, Psychiatry 25% and Dermatology 25% questions.

Surgery & allied Paper-2 to have General Surgery 40%, Orthopedics 40%, Anesthesia 10% and Radiodiagnosis 10%.

Any further updates as per NEXT regulations.

Annexure 9

Suggested format for a Theory paper – Universities and colleges may design their unique question paper blueprint as per the principles given in the format		
Duration-3 hours		100 marks
	Type of question/ Number of questions	Marks per question
Q No 1	Scenario based MCQ/ 10-20	1-2
Q No 2	Long essay question/ ONE	10-12
Q No 3	Reasoning Questions/ FIVE	3
Q No 4	Short notes (applied aspects)/ FOUR All four subparts related to six integrated topics if subject is part of integrated modules. However, if a subject has less competencies in integrated module than atleast 2 sub-parts from integrated modules.	4-5
Q No 5	Short notes / THREE	5-6
Q No 6	Short notes / FOUR (one subpart of 5 marks from AETCOM)	4-5

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Instructions to Paper Setter for framing questions

PAPER -1-MBBIO0001

100 Marks

Q.1 MCQs- (Should not be more than 20% of entire paper)

MCQs from each Paper should be clinical based, single response with 4 options in answers. Avoid one liner and negative terms in stem of question. The MCQs should not be in the form of 'fill in the blanks'. The answer key of MCQs should be provided to the paper checker/examiner.

Q.2 One Short note on AETCOM Topic allotted to Biochemistry is to be added in each paper.

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Instructions to Paper Setter for framing questions

PAPER -2-MBBIO0002

100 Marks

Q.1 MCQs- (Should not be more than 20% of entire paper)

MCQs from each Paper should be clinical based, single response with 4 options in answers. Avoid one liner and negative terms in stem of question. The MCQs should not be in the form of 'fill in the blanks'. The answer key of MCQs should be provided to the paper checker/examiner.

Q.2 One Short note on AETCOM Topic allotted to Biochemistry is to be Added in each paper.

Ans

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DEPARTMENT OF BIOCHEMISTRY, GOVT. MEDICAL COLLEGE, JAMMU.

**DETAILS OF SYLLABUS FOR BIOCHEMISTRY (THEORY) FOR 1ST PROF. MBBS
Session 2024-25 onwards.**

1.Theory

Paper –I (100 Marks)

Paper –II (100 Marks)

2.Practical -100 Marks (including viva)

PAPER 1

Basic Biochemistry

03 Marks

Describe the molecular and functional organization of a cell and its sub-cellular components and composition and functions of biological membranes.

Enzymes

08 Marks

Explain fundamental concepts of enzyme, isoenzyme and co-enzyme.

Enumerate the main classes of IUBMB nomenclature.

Describe and explain the basic principles of enzyme activity.

Describe and *discuss* enzyme inhibition and role of enzyme or drugs as inhibitors and enzymes as therapeutic enzymes.

Describe and *discuss* the clinical utility of various serum enzymes in laboratory and their uses as markers of various pathological conditions.

Interpret laboratory result of enzymes in various disorders.

Chemistry of Carbohydrates


05 Marks

Discuss and differentiate monosaccharide's ,disaccharides and polysaccharides with examples and their importance, structural elements and storage molecule in the human body.

Chemistry of Lipids

04 Marks

Describe and discuss the main classes of Lipids and their functions.



Chemistry of Proteins**04 Marks**

Discuss briefly structure of amino acids and classify amino acids on the basis of Nutritional and metabolic significance.

Discuss classification of proteins, structural organization, functions and clinical aspects.

Nucleic Acid Chemistry**04 Marks**

Describe nucleotides and nucleic acids and their clinical significance.

Water Electrolytes**06 Marks**

Describe the processes involved in maintenance of normal pH, water & electrolytes balance of body fluids and the derangements associated with them.

Functions tests**10 Marks**

Describe the functions of the kidney, liver, thyroid and adrenal glands and their clinical significance. Interpret the function tests report.

Molecular Biology**15 Marks**

Describe in brief the major steps involved in replication, transcription and translation.

Describe the types of DNA repair, gene mutations and associated disorders.

Describe the basic mechanism of regulation of gene expression.

Describe applications of molecular technologies like recombinant DNA technology, PCR in the diagnosis and treatment of diseases. Briefly discuss microassay, FISH, CRISPR.

Nutrition**05 Marks**


Discuss the importance of various dietary components and explain importance of dietary fiber.

Describe the types and causes of protein energy malnutrition and its effects.

Provide dietary advice for optimal health in childhood and adult in diseases conditions like diabetes mellitus, coronary artery diseases and in pregnancy.

Describe the causes (including dietary habits) effects and health risks associated with being overweight/obesity/metabolic syndrome.

Summarize the nutritional importance of commonly used items of food including fruits and vegetables (macro-molecules and its importance)



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Extra Cellular Matrix

03 Marks

Enumerate the functions and components of the extra cellular matrix (ECM)

Discuss the involvement of ECM components in health and diseases.

Describe proteins targeting & sorting along with its associated disorders.

Immunology

05 Marks

Describe the structure, functions and disorders of immunoglobins with brief description of cellular and humoral immunity.

Vitamins

15 Marks

Describe the biochemical role of vitamins in the body and explain the manifestations of their deficiency.

Mineral Metabolism

08 Marks

Describe the dietary sources, absorption, transport and metabolism, biochemical functions of iron, calcium, copper with its associated clinical disorders

Discuss Magnesium, zinc and phosphorus along with its clinical significance and discuss the functions of trace elements.

AETCOM

05 Marks

Enumerate and describe professional qualities and roles of a physician.

Describe and discuss commitment to lifelong learning as an important part of physician growth.



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PAPER 2

OVERVIEW OF INTERMEDIARY METABOLISM

METABOLISM OF CARBOHYDRATES.

25 Marks

Describe the digestion, absorption and transport of carbohydrates from food along with its disorders.

Define and briefly describe the pathways of carbohydrate metabolism and their regulation (glycolysis, gluconeogenesis, TCA and significance of glycogen metabolism and HMP shunt) with associated disorders.

Describe and discuss the regulation, functions and integration of minor Carbohydrate Metabolism pathway briefly along with associated diseases/disorders.

Discuss the mechanism and significance of blood glucose regulation (Glucose homeostasis) in health and disease. Describe the types, Biochemical changes, complications and laboratory investigations related to diabetes and other carbohydrate metabolic disorders.

Interpret the results of analytes associated with metabolism of carbohydrates and other laboratory investigations related to disorders of carbohydrate metabolism.

METABOLISM OF LIPIDS

20 Marks

Describe the digestion and absorption of dietary lipids and its associated disorders.

Describe and discuss the fatty acid oxidation, metabolism of ketone bodies along with their clinical significance.

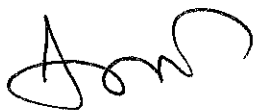
Describe metabolism of Triglycerides and cholesterol metabolism along with its regulation and clinical significance.

Describe the metabolism of lipoproteins with brief overview of lipoprotein structure, their interrelations and relation with atherosclerosis.

Discuss Biological role and therapeutic applications of Eicosanoids and their inhibitors.

Describe Fatty liver, cholelithiasis and obesity.

Interpret laboratory results of analytes associated with metabolism of lipids.



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METABOLISM OF PROTEINS

15 Marks

Describe the digestion and absorption of dietary proteins.

Describe plasma proteins and their functions and brief overview of normal and abnormal electrophoretic pattern of serum proteins, acute phase proteins.

Describe the formation, transport, detoxification of Ammonia, Ammonia toxicity and its clinical significance.

Describe the specialized products formed from the amino acids Glycine, Phenylalanine, Tyrosine, Tryptophan and Methionine, branched chain amino acids and Arginine and the inborn errors associated with them. Discuss new-born screening.

Describe the structure and functions of haem in the body and describe the processes involved in its metabolism with emphasis in jaundice and describe porphyrin metabolism.

Describe the major types of Hemoglobin and its types, derivatives and variants found in the body and their physiological /pathological relevance.

NUCLEIC ACID METABOLISM

07 Marks

Describe briefly synthesis of purines in the body with special stress on salvage pathway.

Describe the degradation of purines and its significance with associated disorders.

INTEGRATION OF METABOLISM

05 Marks

Describe the integration of various metabolic processes in the body (Carbohydrate, Lipid and Protein).

Discuss metabolism of alcohol with biochemical changes and effects of chronic alcoholism.

Xenobiotics

03 Marks

Describe the role of Xenobiotics in health and diseases.

Free radicals and anti-oxidants

03 Marks

Describe the antioxidant defense system in the body.

Describe the role of oxidative stress in the pathogenesis of conditions such as cancer, complications of diabetes mellitus and atherosclerosis.

Oncogenesis

03 Marks

Describe oncogenesis, oncogenes and its activation with focus on p53 & apoptosis.

Describe various biochemical tumor markers and biochemical basis of cancer therapy.



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Biological Oxidation.

07 Marks

Describe the biochemical processes involved in generation of energy in cells.

HORMONES

07 Marks

Enumerate the hormones and markers related to reproduction and reproductive health and their clinical interpretation (For e.g. LH, FSH, Prolactin, β -HCG, Estrogen, Progesterone, testosterone and AMH). Discuss the importance of Prenatal screening.

Discuss briefly on HIV and biochemical changes in AIDS.

Discuss the role of Artificial in clinical Biochemistry laboratory practices.

AETCOM

05 Marks

Describe and discuss the role of a physician in health care system.

Identify and discuss physician's role and responsibility to society and the community that she/he serves.

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TOPICS OF THE LECTURES AND APPROXIMATE NUMBERS OF LECTURES, HUMAN BIOCHEMISTRY-FIRST PHASE-MBBS.

LECTURES

1.	Introduction in Biochemistry, cell structure and function	1
2.	Carbohydrate Chemistry	4
3	Protein Chemistry	4
4	Lipid Chemistry	4
5	Nucleic acid Chemistry	4
6	Enzymes	6
7	Biological Oxidation	2
8	Chemistry and functions of Hemoglobin, abnormal hemoglobin	2
9	Carbohydrate Metabolism	6
10	Protein Metabolism	6
11	Lipid Metabolism	6
12	Integration of Metabolism & Metabolic changes during starvation	2
13	Hormones	1
14	Vitamins (Fat and water soluble)	6
15	Nutrition	2
16	Purine and Pyrimidine Metabolism	2
17	Chemistry and functions of Nucleic Acid, Protein Biosynthesis, Gene expression, Mutations	5
18	Genetic engineering and its applications	2
19	Biochemistry of cancer	1
20	Radioisotopes	1
21	Hemoglobin metabolism, liver function test, detoxification mechanism	3
22	Kidney Function Test, Thyroid function tests	2
23	Mineral Metabolism	4
24	Water and electrolytes balance.	2
25	Acid base balance	2
26	Molecular concept of body defence.	2

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First Prof. MBBS (Phase – I) to be held in year - 2024-25, 2025-26, 2026-27.

Course: - 1st Prof. MBBS / Phase- I

Title: - Anatomy

Course no: - Paper- I- MBANAT0001 , Paper II- MBANAT0002

Duration: - 03 Hours.

Maximum Marks: - 100

Theory: - (Paper- I – 100 Marks)

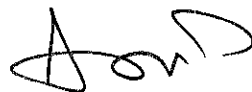
(Paper- II – 100 Marks)

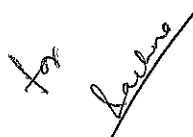
Instructions for Paper Setters: - Paper- I/ Paper-II.

- 1) Paper – I to be set by external examiner and Paper- II by Internal examiner and each will carry 100 marks. (Copy of Syllabus enclosed).
- 2) All Questions are compulsory.
- 3) Attempt Questions in serial order.
- 4) Illustrate your answers with well labelled diagrams wherever necessary.
- 5) MCQ's should not be more than 20% of entire Paper.

Format of theory paper:-

	Type of Question/Number of Questions	Marks per Question
Q.no-1	Scenario based MCQ/10-20	1-2
Q.no-2	Long essay question/ONE	10-12
Q.no-3	Reasoning Questions/ FIVE	3
Q.no-4	Short notes (applied aspects)/FOUR All four subparts related to six integrated modules. However, if a subject has less competencies in integrated module than atleast 2 sub-parts from integrated modules.	4-5
Q.no-5	Short notes/THREE	5-6
Q.no-6	Short notes/FOUR (One subpart of 5 marks from AETCOM)	4-5

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First Prof. MBBS (Phase – I) to be held in year -2024-25, 2025-26, 2026-27.

Course: - 1st Prof. MBBS / Phase- I
Title: - Anatomy
Course no: - Paper- I- MBANAT0001 , Paper II- MBANAT0002
Duration: - 03 Hours.

Maximum Marks: - 100
Theory: - (Paper- I – 100 Marks)
(Paper- II – 100 Marks)

Distribution of Course for Theory Papers (Anatomy):-

Paper- I

- Head & neck
- Upper Limb
- Neuro Anatomy
- Principles of Genetics
- General Histology and General Embryology
- Systemic Histology, systemic embryology & applied anatomy of concerned regions.
- AETCOM module 1.5.

Paper- II

- Thorax
- Abdomen & Pelvis
- Lower Limb
- General Histology and General Embryology
- Systemic histology, systemic embryology & applied anatomy of concerned regions.
- AETCOM module 1.4.

Note for Paper Setting: - The question Paper will contain questions spread over the entire syllabus and the candidates will be required to attempt all questions. Format of theory paper will be same & regional wise distribution is as follows:-

Distributions of Marks:-

PAPER-I (100 Marks)	PAPER –II (100 Marks)
MCQ's- 15 Marks	MCQ's-15 Marks
Thorax + Abdomen & Pelvis + Lower Limb= 50 Marks	Head & Neck + Neuroanatomy + Upper Limb= 50 Marks
Genetic Histology + Embryology= 30 Marks	Genetic Histology + Embryology= 30 Marks
AETCOM Module 1.5 (Cadaver as best Teacher)- 05 Marks	AETCOM Module 1.4 (Foundation of Communication)- 05 Marks



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First Prof. MBBS (Phase – I) to be held in year -2024-25, 2025-26, 2026-27.

Course: - 1st Prof. MBBS / Phase- I

Title: - Anatomy

Course no: - Paper- I- MBANAT0001 , Paper II- MBANAT0002

Duration: - 03 Hours.

Maximum Marks: - 100

Theory: - (Paper- I – 100 Marks)

(Paper- II – 100 Marks)

Syllabus for 1st Prof. MBBS of subject Anatomy

Theory:

Human Anatomy. The course shall comprise of:

GENERAL ANATOMY

- a. Human Embryology both General and Systemic (all systems).
- b. Principles of Human Genetics.
- c. Human Histology both General and Systemic (all systems)
- d. Gross Anatomy of entire human body including Living Anatomy and Applied Anatomy under following heads:-
 - Upper Limb
 - Lower Limb
 - Head & Neck
 - Brain
 - Thorax
 - Abdomen & Pelvis
 - Aetcom modules 1.5, 1.4.
 - Early clinical exposure.

Practical:

- a. The practical teaching in gross Anatomy should be done by dissecting entire body, region wise to have knowledge of entire body.
- b. In Histological practicals the different histological sections will be viewed in general and systemic histology system wise.
- c. In Surface Anatomy students will be taught to draw on cadaver or on blackboard (with life size human drawing) main organs, points, nerves vessels and spaces of applied importance.
- d. In Radiological Anatomy plain X-ray films, special procedures of all regions CAT & MRI scan.
- e. Osteology: The various human bones of body will be taught to students to give a complete knowledge of features, attachments, land marks, relations, articulation, ossification and applied anatomy.



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Sachina

First Prof. MBBS (Phase – I) to be held in year – ~~2024-25~~, 2024-25, 2025-26, 2026-27.

Course: - 1st Prof. MBBS / Phase- I

Title: - Anatomy

Course no: - Paper- I- MBANAT0001 , Paper II- MBANAT0002

Duration: - 03 Hours.

Maximum Marks: - 100

Theory: - (Paper- I – 100 Marks)

(Paper- II – 100 Marks)

• **List of Books Prescribed for 1st Prof. MBBS (Subject- Anatomy)**

1. Text Book of Human Histology- By Dr. Inderbir Singh/Vishram Singh (Latest Edition)
2. Human Neuro Anatomy- By Inderbir Singh/Vishram Singh (Latest Edition)
3. Human Embryology- by Inderbir Singh/ Vishram Singh (Latest Edition)
4. B.D Chaurasia Gross Anatomy, Vol. I, II, III & IV. (Latest Edition)
5. Medical Genetics- by G.P Pal/ Renu Chouhan. (Latest Edition)
6. Snell's Clinical Anatomy. (Latest Edition)
7. Gray's Anatomy student edition. (Optional)
8. AETCOM manual- Nitin AshokJohn
9. Early clinical exposure by Anand Reddy/ Clinical Anatomy by Ajay Kumar and Anu Sharma.



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Sachin