



ರಾಜೀವ್ ಗಾಂಧಿ ಆರೋಗ್ಯ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಕರ್ನಾಟಕ
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CIRCULAR

Subject: - Question Paper Pattern and the Practical Assessment Pattern of Pathology, Microbiology, Forensic Medicine, Pharmacology and Community Medicine, for the Summative Examination of the University, which are applicable to the MBBS students of CBME-2024-2025 Academic batch – Reg

Ref:-

- (1) Guidelines for CBME Curriculum-2024, Released by the National Medical Commission and its Modifications. No.D-11011/500/2024/AC New Delhi, dated the 12/09/2024
- (2) Notification of Implementation of CBME-2024 Guidelines for the Academic Year 2024-25 Batch of MBBS Students- No. RGUHSB/RRAC/AUTH(MEET)/09/198SYN/2025 Date: 04.04.2025
- (3) Meeting of the concerned BOS members and the subject experts- No: RGUHSB/RRAC/AUTH(MEET)/7/BOS Medical/20.26 Date:19.01.2026
- (4) Meeting of Pharmacology BOS Members and the Subject experts – 21.01.2026
- (5) Meeting of Pathology BOS Members and the Subject experts – 22.01.2026
- (6) Meeting of Microbiology BOS Members and the Subject experts – 30.01.2026
- (7) Meeting of Forensic Medicine BOS Members and the Subject experts – 27.01.2026
- (8) Meeting of Community Medicine BOS Members and the Subject experts – 29.01.2026
- (9) CAC Meeting conducted on 02.02.2026
- (10) “Graduate Medical Education Regulations, 2023”
- (11) “Graduate Medical Education Regulations, 2019

With reference to the above subject, for the students of the Academic year 2024-25, the Competency Based Medical Education Guidelines were released by the National Medical Commission vide reference No (1) on 12.09.2024. Subsequently, the University has implemented the same for the MBBS students of 2024-2025.

In the Annexure-9 of the CBME-2024 Guidelines released by the NMC it is clearly stated this annexure is a “Suggested format for a Theory paper – Universities and colleges may design their unique question paper blueprint as per the principles given in the annexure”

Hence, keeping the principle intact, the Question Paper pattern for the subject of Pathology, Microbiology, Forensic Medicine, Pharmacology and Community Medicine are developed. It may be noted here that,

1. According to the subject experts, the strict division of the syllabus, as a matter of fact, in the course of medicine is not commonsensical.
2. This division of the subject into Paper -I & Paper-II for university assessment is done wherever applicable. The division is done only to distribute the subject. However, overlapping of the topics is inevitable. Students or faculty cannot claim any question as out of syllabus for the prescribed Paper or subject, based only on the division of systems/subject into Paper 1 and 2.
3. Abbreviations used are LE - Long Essay; SA – Short Answers (Reasoning questions); SN – Short Notes; MCQ-Multiple choice Questions. Each MCQ will have two sub-questions carrying one mark each.
4. Applied Integrated modules: The stipulated integrated modules in the CBME-2024 guidelines are Anaemia, Ischemic heart disease, hypertension, Diabetes mellitus, thyroid and tuberculosis. However, it may not be limited to these topics or the division of the Integrated modules into paper -I & Paper -II modules is unattainable.
5. The Question Paper pattern & the Practical Assessments Pattern for the subjects of Pathology, Microbiology, Forensic Medicine, Pharmacology and Community Medicine are as follows: -

I. Number of Theory Papers: -

Sl. No	Name of the Subject	Theory		Practical & Viva
		Number of Papers	Maximum Marks	Maximum Marks
01	Pathology	Paper-I	100	100
		Paper -II	100	100
02	Microbiology	Paper-I	100	100
		Paper -II	100	100
03	Pharmacology	Paper-I	100	100
		Paper -II	100	100
04	Community Medicine	Paper-I	100	100
		Paper -II	100	100
05	Forensic Medicine	Paper-I	100	100

II. Type of Questions in theory papers; -

<i>Type of questions</i>	<i>Marks per question</i>	<i>Number of questions</i>	<i>Total marks</i>
Long Essay questions	10	1	10
Short answer questions (Reasoning questions)	3	5	15
Short Note questions	5	07	35
Short Note Questions from Applied Integrated Topics	5	2	10
Short Note Questions from Applied Aspects	5	2	10
MCQs (Each question/scenario shall have two sub question)	2 (1+1)	10	20
TOTAL		27	100

III. Sample Question Paper Layout for Theory Examination:

Long Essay		1 question x 10 marks = 10 marks
1		
Reasoning Questions		5 questions x 3 marks = 15 marks
2		
3		
4		
5		
6		
Short Notes		11 questions x 5 marks = 55 marks
7	Applied aspects (from integrated topics)	
8	Applied aspects (from integrated topics)	
9	Applied aspects	
10	Applied aspects	
11		
12		
13		
14		
15		
16		
17	AETCOM (2.6 and 3.4 modules)	
MCQ (Single response) – Preferably case scenario based 10 MCQs x 2 marks =20 marks		

18	
	18 (i)
	18 (ii)
19	
	19 (i)
	19 (ii)
20	
	20 (i)
	20 (ii)
21	
	21 (i)
	21 (ii)
22	
	22 (i)
	22 (ii)
23	
	23 (i)
	23 (ii)
24	
	24 (i)
	24 (ii)
25	
	25 (i)
	25 (ii)
26	
	26 (i)
	26 (ii)
27	
	27 (i)
	27 (ii)

IV. Forensic Medicine: -
Distribution of topics in Theory Paper:

Section	Chapters
Section 1	Topic 1: Introduction to Forensic Medicine, Basics of Legal Procedure
Section 2	Topic 2: Forensic Pathology Topic 3: Mechanical Asphyxia
Section 3	Topic 5: Clinical Forensic Medicine – Mechanical injuries and wounds Topic 6: Clinical Forensic Medicine – Firearm injuries Topic 7: Clinical Forensic Medicine – Regional injuries
Section 4	Topic 4: Clinical Forensic Medicine – Identification Topic 8: Clinical Forensic Medicine – Sexual Offences Topic 9: Clinical Forensic Medicine – Child abuse, Torture and Human rights
Section 5	Topic 10: Medical Jurisprudence Topic 11: Forensic Psychiatry
Section 6	Topic 12: Forensic Laboratory Investigation Topic 13: Toxicology
Section 7	AETCOM
	Total -100 Marks

List of Integrated topics For Short Notes: -

Section	Topic for integration
Section 2	Burns
Section 3	Injuries / Trauma
Section 4	Abortion
Section 6	Insecticides
	Snake, scorpion, insect bites
	Alcohol disorders

IV (A) Practical Examination for Forensic Medicine Marks Distribution for practical examination: -

Practical Assessment	Viva-voce	Total
80 marks	20 marks	100 marks

Practical Assessment: (80 marks)

Exercise No.	Exercise	Marks
Exercise-1	Wound certificate + PM certificate	10 + 10 = 20 marks
Exercise-2	Age certificate + Preservation of evidentiary materials in living and dead cases	15 + 5 = 20 marks

Excercise-3	Skeletal remains + Spotters	10 + 10 = 20 marks
Excercise-4	Victim of rape* OR Accused of rape* OR Drunkenness certificate + MCCD certificate	10 + 10 = 20 marks

Exercise-1 will be **OSPE** and will be evaluated using the checklist (as in *Annexure 1*).

*Format shall be given for Victim of rape and accused of rape (as in *Annexure 2 and 3*).

Annexure 1: Checklist for evaluation of OSPE exercises

A. Wound certificate

(Maximum marks :10)

Component of certificate	Max marks	Marks awarded
Preliminary details (MLC No., Name, Age, Sex, Address, Date of admission & discharge, Brought by)	0.5	
Consent	1	
Identification marks	1	
History	1	
Details of injuries	4	
Opinion	2	
Signature, Name & Designation of doctor	0.5	
Total	10	

B. Postmortem certificate

(Maximum marks :10)

Component of certificate	Max marks	Marks awarded
Preliminary details (Name, Age, Sex, Date and time of receiving and dispatch)	0.5	
External examination	2	
Internal examination	3	
Opinion to the cause of death	2	
Time since death with reasons	2	
Signature, Name & Designation of doctor	0.5	
Total	10	

Annexure-2: Format for Victim of rape

Students has to write the certificate using this template in the Answer Booklet provided

REPORT ON MEDICO-LEGAL EXAMINATION OF SURVIVOR OF SEXUAL VIOLENCE

1. Name D/o or S/o (where known).....
2. Address.....
3. Age (as reported)
4. Sex (M/F/Others)
5. Date and Time of arrival in the hospital
6. Date and Time of commencement of examination.....
7. Brought by.....
8. MLC No. Police Station.....
9. Whether conscious, oriented to time, place and person:
10. Informed Consent/refusal:
11. Marks of identification:
12. Relevant Medical/Surgical history:
13. History related to sexual violence:
14. General Physical Examination:
15. Examination for injuries on the body, if any:
16. Local examination of genital parts/other orifices:
17. Systemic examination:
18. Sample collection/ investigations for hospital laboratory/ Clinical laboratory:
19. Samples Collection for Forensic Science Laboratory:
20. Date and time of completion of examination:
21. Final Opinion:

Annexure-3 : Format for Accused of rape

Students has to write the certificate using this template in the Answer Booklet provided

REPORT ON MEDICO-LEGAL EXAMINATION OF ACCUSED OF SEXUAL VIOLENCE

1. Name S/o or D/o (where known)
2. Address.....
3. Age (as reported)
4. Sex (M/F/Others)
5. Date and Time of arrival to the hospital, brought by Police/ Court order/ Self.....
6. Date and Time of commencement of examination.....
7. Brought by.....
8. MLC No. Police Station.....
9. Whether conscious, oriented to time, place and person.....
10. Informed Consent/refusal:
11. Marks of identification:
12. Relevant Medical/Surgical history:
|
13. History related to sexual violence:
14. General Physical Examination:
15. Examination for injuries on the body, if any:
16. Local examination of genital parts/other orifices
17. Systemic examination:
18. Psychological assessment:
19. Sample collection/ investigations for hospital laboratory/ Clinical laboratory:
20. Samples Collection for Forensic Science Laboratory:
21. Date and time of completion of examination:
22. Final Opinion:

V. MICROBIOLOGY: -**Distribution of Topics in Theory Paper I:**

<i>Topics</i>
Topic 1: General Microbiology, Ethics & Communication
Topic 2: Basic Immunology & Immunological disorders
Topic 3: CVS and Blood
Topic 4: Gastrointestinal and Hepatobiliary system
Topic 5: Musculoskeletal system, Skin and Soft tissue infections
AETCOM
Total-100 Marks

Distribution of Topics in Theory Paper II:

<i>Topics</i>
Topic 6 : Central Nervous System infections
Topic 7: Respiratory tract infections
Topic:8 Genitourinary and Sexually Transmitted Infections
Topic 9: Zoonotic diseases and Miscellaneous
Topic 10: Healthcare-associated infections (HAI)
Topic 11: Antimicrobial resistance (AMR) & Antimicrobial Stewardship
AETCOM
Total -100 Marks

V (A): Distribution of Marks for practical examination-Microbiology

Practical Assessment	Viva-voce	Total
80 marks	20 marks	100 marks

Practical Assessment: (80 marks)

<i>Exercise No.</i>	<i>Exercise</i>	<i>Marks</i>
Excercise-1	Staining – Gram stain <u>or</u> ZN stain	20
Excercise-2	Spotters	10
	OSPE	5
	AETCOM	5
Excercise-3	Applied exercise – Cardiovascular infections/ Respiratory infections/ Genitourinary infections	20
Excercise-4	Applied exercise – Gastrointestinal & hepatobiliary infections/ Skin & Musculoskeletal infections/ Central nervous system infections	20

Note:

Exercises 3 & 4 - The cases selected for applied exercises should be from different organism groups (Bacteria/Virus/Parasite/Fungus). Relevant questions on AMR/AMS/HAI shall be included in applied exercises.

VI. COMMUNITY MEDICINE: -**Distribution of Topics in Theory Paper-1:**

Sl. No.	Chapters
1	Concept of Health and Disease
2	Environmental health problems
3	Principles of health promotion and education
4	Nutrition
5	Basic statistics and its applications
6	Epidemiology
7	Demography and vital statistics
8	Occupational Health
9	Hospital waste management
10	International health
11	AETCOM
	Total-100 Marks

Distribution of Topics in Theory Paper-2:

Sl. No.	Chapters/Topics
1	Relationship of social and behavioural to health and disease
2	Epidemiology of communicable and non- communicable diseases
3	Reproductive maternal and child health
4	Geriatric services
5	Disaster Management
6	Mental Health
7	Health planning and management
8	Health care of the community
9	Essential Medicine/Integration
10	Recent advances in Community Medicine
11	AETCOM
	Total -100 Marks

Blue print for practical examination

Practical Assessment	Viva-voce	Total
80 marks	20 marks	100 marks

Distribution of Marks for Practical Assessment: (80 marks)

Sl. No.	Component	Marks
1	Clinico-social case	30 marks
2	Exercises: Statistics*, Epidemiology*; Nutrition,	30 marks

	Environment, Demography	
3	Spotters + OSPE+ OSCE	10 + 05+05 = 20 marks

***Mandatory**

VII. PHARMACOLOGY: -

Distribution of Topics for Paper - 1

Sl. No	Topic
1	General Pharmacology
2	Autonomic Nervous system & Peripheral nervous system
3	Autacoids
4	Cardiovascular system, Diuretics & Blood
5	Gastrointestinal system
6	Applied Pharmacology
7	AETCOM
	TOTAL-100 Marks

Distribution of Topics for Paper - 2

Sl No	Topic
1	Endocrine system
2	Central nervous system
3	Respiratory System
4	Chemotherapy
5	Miscellaneous & Applied Pharmacology
6	AETCOM
	TOTAL-100 Marks

Distribution of Marks for University Examination

Practical: 80 Marks | Viva Voce: 20 Marks

Sl. No.	Exercise	Marks
1.	Drug dose calculation	10
2.	Drug counselling OR Drug Promotional Literature (DPL)	10
3.	Prescription Writing OR Critical Appraisal of a prescription (CCR)	10
4.	Spotters	10
5.	Drug Delivery Systems (Dosage forms)	10
6.	Computer Assisted Lab (CAL) / Graph	10
7.	Reporting Adverse Drug Reactions (ADR)	10
8.	Routes of drug administration (OSPE Only)	10

	Total	80
	Viva Voce	20
	Grand total	100

VIII. PATHOLOGY

Distribution of Topics for Paper - 1

Sl No.	Name of the topic
1	Introduction to Pathology
2	Cell Injury and adaptations
3	Inflammation
4	Healing and Repair
5	Hemodynamic disorder
6	Neoplastic Disorders
7	Basic diagnostic Cytology
8	Immunopathology and AIDS
9	Amyloidosis
10	Infections and Infestations
11	Environmental and Nutritional diseases
12	Introduction to Hematology
13	Microcytic Anemia
14	Macrocytic Anemia
15	Hemolytic Anemia
16	Leucocyte Disorders
17	Lymph node & Spleen
18	Hemorrhagic Disorders
19	Blood Banking & Transfusion
20	Clinical Pathology
21	AETCOM
	Total – 100 Marks

Distribution of Topics for Paper for Paper - 2

Sl No	Topic
1	Gastrointestinal tract
2	Hepatobiliary system
3	Respiratory system
4	Cardiovascular system
5	Urinary tract
6	Male genital tract
7	Female genital tract
8	Breast

9	Endocrine system
10	Bone and soft tissue
11	Skin
12	Central nervous system
13	AETCOM
	Total – 100 Marks

Distribution of Marks for Practical Examination

Practical marks: 80 Viva voce marks: 20

Examiner	Topic for practical	Practical Marks
Exercise 1	Spotters + OSPE	25
Exercise 2	Urine Analysis	15
Exercise 3	Hematology slide interpretation + Chart	15+10=25
Exercise 4	Histopathology slide interpretation	15
	Total marks	80

Approved in e-office no.132908

DIRECTOR

Copy to:

1. All Medical college Dean/Director/Principals to Circulate among all the concerned.
2. System Analyst to host the Circular with a Caption Question Paper Pattern & Practical Marks distribution for the subject of 2nd phase MBBS of 2024 Academic later.
3. Registrar Evaluation
4. PA to Reg/Registrar/PA to Vice Chancellor.