

THE TAMIL NADU DR. M.G.R MEDICAL UNIVERSITY, CHENNAI.

**FIRST, SECOND & FINAL YEAR MBBS DEGREE COURSE
SCHEME OF PRACTICAL EXAMINATION FROM FEBRUARY – 2015
ONWARDS.**

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FIRST MBBS EXAMINATION

PRACTICAL SCHEME

THE TAMIL NADU DR .M .G .R MEDICAL UNIVERSITY

69 ANNA SALAI, GUINDY, CHENNAI 600 032

First MBBS Examinations

Guidelines for Practical and Viva Voce examinations

ANATOMY - PRACTICALS 40 marks

Histology: 14 marks

Spotters 14 x 1 marks = 14 marks

(Histology General 4 marks + Paper I -5 marks + Paper II-5 marks)

Gross Anatomy: 14 x 1 = 14 marks

Spotters 14 x 1 marks = 14 marks

- a) Upper Limb - 2
- b) Lower Limb - 2
- c) Abdomen - 2
- d) Pelvis & Perinium - 1
- e) Thorax - 2
- f) Head and neck - 3
- g) Brain - 2

Discussion 2 x 4 marks = 8 marks(1 from Paper- I & 1 from Paper - II)

OSPE 2 x 2 = 4 marks (1 from Paper- I & 1 from Paper - II)

VIVA 20 marks

Osteology 6 marks

Radiology 4 marks

Surface Marking 6 marks

Embryology 4 marks

Internal Assessment : 40 marks (Theory 20 & Practical 15 + Record 5)

PHYSIOLOGY

Physiology Practicals : 40 marks

1. Hematology : 16 marks (Major -10 marks, Minor 6 marks)
2. Clinical Examination : 20 marks
(CNS-10marks +CVS/RS-5marks+
Clinical discussion chart-5 marks)
3. OSPE (2 Skilled stations): 04 marks

Major experiment

1. Total RBC Count
2. Total Leukocyte count
3. Differential count
4. Absolute Eosinophil count

Total RBC count should be added to the Practical syllabus

VIVA : (20 marks)

- General Physiology, Blood, Muscle, Digestive system - 6 marks
- Endocrinology, Reproduction, excretory system - 4 marks
- Cardiovascular system, Respiratory system - 4 marks
- Central nervous system and Special senses - 6 marks

Internal Assessment : 40 marks (Theory 20 & Practical 15 + Record 5)

BIOCHEMISTRY: Practicals: 40 marks

Major experiment	:	12 marks
Minor experiment	:	12 marks
Charts/Suggest Investigation	:	12 marks (3 charts x4 marks)
OSPE	:	4 marks (2 performance stations X 2 marks)

Major experiment involving Quantitative estimation of common blood analytes: **(12 marks)**

Structuring of marks for the major experiment:

- a) Case history to be given; Student to be asked to write down provisional diagnosis and relevant investigations for the case
- b) Reference ranges for the relevant parameters
- c) Principles and procedure of the estimation of the analyte chosen for estimation
- d) Student to be asked to carry out an estimation of one specific and relevant analyte – accuracy of test result
- e) Discussion of the clinical condition and metabolism of the analyte estimated

Minor experiment: Qualitative -- 12 marks

Identification of Abnormal constituents of urine only. Identification of Physiologically important compound should not be tested as part of minor qualitative experiment.

Charts / Suggest investigation -- 12 marks

(Laboratory values of biochemical parameters relevant to the case
(eg. Diabetic history with GTT/ Liver disorder with LFT etc..)

Electrophoretic / chromatogram pattern.

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OSPE -- 2 x 2 = 4 marks (Two performance stations)

VIVA -- 20 marks

Internal Assessment : 40 marks (Theory 20 & Practical 15 + Record 5)

Suggested Division of topics among 4 examiners:

I. Carbohydrates – Chemistry & metabolism, Cell, Biological Oxidation, Oxidative phosphorylation, TCA cycle

II. Proteins – Chemistry & metabolism, Enzymes, Plasma , Function tests, Xenobiotics, Tumor markers, Oncogenes, Hormones, Hemostasis and Immunity.

III. Lipids – Chemistry & metabolism, Vitamins, Nutrition, Porphyrins, Hemoglobin, Jaundice,

IV. Nucleic acid chemistry & metabolism, Molecular Biology , Water, Electrolytes and Acid- Balance.

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SECOND MBBS EXAMINATION

PRACTICAL SCHEME

SECOND M.B.B.S. EXAMINATIONS

GUIDELINES FOR CLINICAL / VIVA VOCE EXAMINATIONS

PHARMACOLOGY (PRACTICALS 25 Marks)

	NO. OF CASES	TIME	MAX
<u>PRACTICAL – I</u>			
1. Spotters	4	20	2
2. Prescription Writing	1	10	3
3. Prescription Audit	1	10	3
4. Clinical problem solving exercises (Therapy oriented problems of drug Adverse reaction and interaction of Commonly used drugs)	1	10	3
5. Dosage calculation	1	5	2
6. Pharmaco economic problem	1	5	2

15

PRACTICAL – II

1. Toxicology	1	10	2.5
2. Clinical Pharmacology	1	20	2.5

Assessment

5

OSPE - 5 x 1 = 5 marks

VIVA - 15 marks

Internal Assessment : 30 marks (Theory 15 & Practical 10 + Record 5)

Topics:

- I)** General Principles
Neuro effector junction and drugs action at synaptic
Ocular Pharmacology
Drugs acting on Central Nervous System

Topics:

- II)** 1. Auacoids
2. Diuretics and other agents affecting renal Conservation of water
3. Drugs acting on cardio - vascular system including blood
4. Drugs acting on respiratory system
5. Therapeutic gases
6. Drugs affecting gastrointestinal function

Topics

- III)** 1. Chemotherapy
2. Dermatological Pharmacology
3. Drugs used for immunomodulation

Topics:

- IV)** 1. Endocrine Pharmacology
2. Enzymes in therapy
3. Vitamins
4. Toxicology

OSPE EXAMPLES

1. To demonstrate how to give an IV & M SC injection
2. To prepare for administration of a Test Dose
3. To demonstrate an inhalers use
4. To demonstrate instillation of drops – eye, nose, ear, etc.,

Assignment includes

1. Symposium / Seminar
2. Short Project Work
3. Problem Based Learning
4. Quiz on prescribed topics.

The resolution passed in the 49th meeting of the Standing Academic Board which was held on 07.01.2015 as follows

Total Practicals - Pathology

(Total – 40)

Peripheral Smear			- 5 Marks
Urine Examination			- 5 Marks
Spotter - Haematology	- 2 Marks (2 slides)		- 10 Marks
	Cytology	- 2 Marks(2 slides)	
	Histopathology	- 6 Marks(6 slides)	
OSPE	- 1 chart	- 1 Mark	- 5 Marks
	Gross	- 2 Marks	
	(2 Specimen)		
	Blood Grouping/Haemoglobin	- 2 Marks	

Total 25 Marks

VIVA VOCE (includes instruments) = 15 Marks

MICROBIOLOGY (PRACTICALS 25 MARKS)

	NO. OF CASES	TIME	MAXIMUM
<u>PRACTICAL</u>			
1. Gram Staining	1	20 min.	3
2. Sputum for AFB	1	20 min.	3
3. Immuno Serology	1	10 min.	3
4. Identification of Bacterial /			
Fungal culture	1	10 min.	3
5. Parasitology	1	10 min.	3
6. Spotters	10	10 min.	5

			20

OSPE

5

25

VIVA Time: 2.00 p.m. to 5.00 p.m. 2 x 7.5 = 15

a) General & Systemtic Bacteriology

b) Virology, Mycology and Parasitology

Internal Assessment : 30 marks (Theory 15 & Practical 10 + Record 5)
(5 assessments need to be conducted throughout the academic year for 25 marks; Record 5 marks)

FORENSIC MEDICINE (PRACTICALS 30 MARKS)

PRACTICAL -I

	NO.OF CASES	TIME	MAX
<u>MAJOR EXERCISE (ANY ONE)</u>			
1. Examination of injured person/ Cadaver/ Photograph	{ {		
2. Examination of Cluster of Bones	{		
3. Assessment of Age by Physical and Dental Examination	{ {	1	20min. 9
4. Assessment of Age by Examination of Cluster of X- rays	{ {		
5. Examination of an individual and Issue of 'Drunkeness Certificate'	{ .}		

PRACTICAL – II (MINOR EXERCISE)

Examination of the foetus, and

1. Assement of age of given foetus	1	10min.	2
2. Sexual offence case examination	1	5min.	2
3. Viscera Packing	1	5min.	3
4. Issue of Medio Legal Certificates/Clinical	1	5min.	3

5. P.M. Certificate interpretation	1	5min.	3
6. Spotters	1	10min.	3

(Weapon, Poisonous plant, Pathology Specimen,
Poison in a bottle, Forensic Specimen

OSPE

25

5

30

VIVA : Time 2.00 p.m. to 5.00 p.m

VIVA - 2 Examiners 5 + 5 10 marks

Internal Assessment : 20 marks (Theory 10 & Practical 5 + Record 5)

(5 assessments need to be conducted thro'out the academic year for 10 marks; Record 5 marks) .

Evaluation of the Skills acquired during the “course”

5 Skills – 5 Stations

1. Stature Estimation
2. Photograph Interpretation
3. Blood /Body Fluids / clue materials - Collection, Packing and forwarding.
4. Medico Legal Document Analysis
- 5 .Injury and Weapon – Interpretation

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FINAL MBBS (PART I & PART II) EXAMINATION

PRACTICAL SCHEME

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY, CHENNAI.

SCHEME OF PRACTICAL EXAMINATION

FINAL MBBS PART I

COMMUNITY MEDICINE

PRACTICALS 30 marks

Clinico Social Case	45 minutes	1 X 12 marks	= 12
Epidemiological Exercise	45 minutes	2 X 4 marks	= 8
Spotters	10 minutes	5 X 1 marks	= 5
OSPE	20 minutes	5 X 1 marks	= 5

			30

VIVA : 10 marks

Internal Assessment : 40 marks (Theory 20 & Practical 15 + Record 5)

SCHEME OF PRACTICAL EXAMINATION

FINAL MBBS PART

OPHTHALMOLOGY MBBS PART I

Practical – 30 marks

	Max Mark
Long Case 1 X 15	= 15
Short Case 2 X 5	= 10
OSCE / Recent Advances	= <u>5</u>
TOTAL MARKS	<u>30</u>

VIVA : 10 marks

Internal Assessment : 20 marks (Theory 10 & Practical 5 + Record 5)

PRACTICAL SCHEME FOR FINAL M.B.B.S.(Part-I)

OTO-RHINO-LARYNGOLOGY

Clinical Examination:

	<u>Case</u>	<u>Duration</u>	<u>Maximum</u>
<u>Long Case</u>	1	30 minutes	15 marks
<u>Short Case</u>	2	30 minutes	10 marks

	Total		25 marks

OSCE Recent Advances 5 marks

Total	30 marks

VIVA : 10 marks

Internal Assessment : 20 marks (Theory 10 & Practical 5 + Record 5)

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THIRD (FINAL) M.B.B.S. PART- II EXAMINATIONS

SUBJECT : **MEDICINE**

	NO. OF CASES	TIME	MAXIMUM
CLINICAL – I			
1. Long Case (including case Sheet writing)	1x40 marks	45 mins	40
2. Short Case	1x20 marks	10 mins	20
3. Spotters	2x10 marks	5 mins each	20
OSCE including two Recent Advances	5x4 marks		20

	Total		100

VIVA : 20 marks

Internal Assessment :60 marks (Theory 30 & Practical 20 + Record 10)

SCHEME OF PRACTICAL EXAMINATION

FINAL MBBS (PART II)

GENERAL SURGERY

The resolution passed in the 49th meeting of the Standing Academic Board which was held on 07.01.2015 as follows

TOTAL Marks : 100

GENERAL SURGERY– 75 Marks

ORTHOPAEDICS – 25 Marks

SURGERY– 75 Marks 95 Minutes

LONG CASE (1) – 30 Marks 45 Minutes

SHORT CASE (2 x 15) – 30 Marks 40 Minutes

OSCE (3) – 15 Marks 10 Minutes

ORTHOPAEDICS- 25 Marks – 45 Minutes

SHORT CASE 2 X 10 – 20 Marks 40 Minutes

OSCE 1 - 5 Marks 5 Minutes

VIVA : 20 marks

Surgery - 15 marks

Orothopaedics - 5

Internal Assessment : 60 marks (Theory 30 + Practical 30)

SCHEME OF PRACTICAL EXAMINATION

FINAL MBBS (PART II)

OBSTETRICS & GYNAECOLOGY AND FAMILY WELFARE

PRACTICAL: 50 marks

Clinical – I		Max. Marks
1. Long Case – Obstetrics	1 (30 Minutes)	15
2. Short Case – Gynaecology	2 x 5 (30 Minutes)	10

OSCE

1. Charts	5 x 1	5
2. Spotter	5 x 2	10
3. Counselling for Family Planning	5	5
4. Recent Advances	5	5
5. Slides		

Total 50

VIVA : 30 marks

Internal Assessment : 40 marks (Theory 20 & Practical 15 + Record 5)

PRACTICAL SCHEME FOR FINAL M.B.B.S.(Part-II)

PAEDIATRICS INCLUDING NEONATOLOGY

Clinical Examination:

	<u>Case</u>	<u>Duration</u>	<u>Maximum</u>
Long Case	1	35 minutes	13 marks
Short Case	2 (2x3 marks)	20 minutes	6 marks
Spotters	2 (2x3 marks)	20 minutes	6 marks

		Total	25 marks

OSCE

5 stations x 1 mark each			5 marks

		Total	30 marks

VIVA : 10 marks

Internal Assessment : 20 marks (Theory 10 & Practical 5 + Record 5)

The resolution passed in the 49th meeting of the Standing Academic Board which was held on 07.01.2015 as follows

One Short case may be assigned as per the IMNCI (Integrated Management of Neonatal and Childhood illness) approach. This will be implemented from February 2016 examination onwards.

eg. **New born**
 Anemia
 Malnutritions
 Pneumonia
 Jaundice
 Diarrhea
 Severe bacterial infection