

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

Dated: 24.06.2014

**FIRST, SECOND & FINAL YEAR MBBS DEGREE COURSE
SCHEME OF PRACTICAL EXAMINATION FOR August - 2014.**

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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.

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.

PATHOLOGY- PRACTICALS

Examination Timings: 8.30 a.m.- 1.00 p.m. -Marks: 25 marks

| No. | Topic of Practical Exams | No of Cases | Time Allotted | Maximum Mark Allotted |
|-----|--|-------------|---------------|-----------------------|
| 1 | Clinical Interpretation Skills. Two detailed case histories with Lab reports of Histopathology, Cytopathology, Hematology and or Autopsy findings to be given and discussed | 2 | 40mts | 3 |
| 2 | Spotters (8Histopathology Slides+ 2 Cytology slides + 2 instruments) to be given with a question pertinent and related to the issue to be asked for the student to answer. | 12 | 30mts | 6 |
| 3 | Hematology Slides- 2 Hematology slides with detailed case history to be given and the student should describe the slide and make a diagnosis. | 2 | 20mts | 2 |
| 4 | Grossing of Specimen: with detailed case history to be given and the student should describe the specimen and make a impression | 3 | 10mts | 3 |
| 5 | Clinical Pathology Exams – Urine Examination – A sample of urine to be provided with a brief history and student should make an | 1 | 20mts | 3 |

| | | | | |
|---|---|---|--------|----|
| | assessment of the physical and one abnormal chemical findings of the urine & discuss | | | |
| 7 | Blood – DC + Hemoglobin: A sample of blood & Unstained slide to be provided and student should make an DC of the slide and estimate HB concentration & discuss | 1 | 40mts | 3 |
| | TOTAL | | 3Hours | 20 |

OSPE

5

25

2. Viva Voce & OSPE Examinations: Time 2.00pm to 5.00pm

| | | | | |
|---|--|------------|-----------|---|
| 1 | Viva Voce (1 Internal examiner) a. General Pathology & Heamatology b. Systemic Pathology | 2 Stations | 5mts each | 15 |
| 2 | Internal Assessment | | | 30 (Theory 15 Practical 10 Record 5) |

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 |
| | | | 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 'Drunkenness Certificate' | .{ | | | |

PRACTICAL – II (MINOR EXERCISE)

Examination of the foetus, and

| | | | |
|---|---|--------|---|
| 1. Assesment 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, Poisonus 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

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

GENERAL SURGERY– 65 Marks

ORTHOPAEDICS – 35 Marks

TOTAL Marks : 100

GENERAL SURGERY– 65 Marks

LONG CASE (1) – 45 Minutes 25 Marks

SHORT CASE (2)– 40 Minutes 30 Marks

OSCE (3) – 10 Minutes 10 Marks

TOTAL 95 Minutes 65 Marks

ORTHOPAEDICS- 35 Marks

SHORT CASE 2 X 15 – 40 Minutes 30 Marks

OSCE 1 - 5 Minutes 5 Marks

TOTAL 45 Minutes 35 Marks

VIVA : 20 marks

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

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)