

THE TAMIL NADU Dr.M.G.R.MEDICAL UNIVERSITY,  
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**Prof. Dr.T.BALASUBRAMANIAN, M.S., D.L.O.**  
**REGISTRAR**

**Ref.No. AC1(5) / 48815 / 2017-1**

**Date:23.01.2018**

To

All the Deans / Principals of all affiliated Medical Institutions of this University.

Sir/Madam,

Sub: Academic – The Tamil Nadu Dr. M.G.R. Medical University,  
Chennai – Recommendation of the 54<sup>th</sup> meeting of the Standing  
Academic Board held on 07.12.2017 - Communicated – Reg.

- Ref: 1. Minutes of the Board of Studies meeting held on 31.10.2017  
for First MBBS degree course.  
2. Minutes of the Standing Academic Board 54<sup>th</sup> meeting held on  
07.12.2017  
3. Resolution No. 40, passed at 258<sup>th</sup> meeting of the Governing  
Council held on 18.12.2017

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I am to inform that the Meeting of the Board of Studies in First MBBS degree course was held on 31.10.2017 and discussed various academic matters. The recommendations of the Board of Studies in First MBBS degree was approved by the 54<sup>th</sup> Meeting of Standing Academic Board held on 07.12.2017 and passed in the 258<sup>th</sup> Meeting of the Governing Council held on 18.12.2017 which are detailed below:

The Board has resolved that to include “Surface Anatomy” in two OSPE stations of 2 marks each (2 x 2 = 4 Marks) covering the syllabus in Paper I and II under Practical Examination on a Cadaver.

The following is the Revised Pattern of Practical Examination.

–	Gross Anatomy Spotters	10 x1 Mark	=	10 Marks
–	Gross Anatomy specimen discussion	2 x 4 Marks	=	8 Marks
–	Histology Spotters	10 x 1 Mark	=	10 Marks
–	Histology slide discussion	2 x 4 Marks	=	8 Marks
–	OSPE (Surface Anatomy)	2 x 2 Marks	=	4 Marks

Total 40 Marks

The Revised VIVA is as follows:

Osteology	– 5 marks
Embryology	– 5 marks
Radiology	– 5 marks
<u>Clinical Anatomy and Genetics</u>	– 5 marks

This will be implemented from **August 2018** examination session onwards.

**It was also resolved** to follow the specified chapters under Paper I and Paper II for Physiology and Biochemistry syllabus (chapter wise Anatomy syllabus for Paper I & II already exists), for First MBBS as given below:

### Physiology

#### Paper I

1. General Physiology
2. Blood
3. Muscle and Tissue
2. Digestion
2. Excretion and Body Fluids
3. Endocrinology
4. Reproduction

#### Paper II

1. Cardio Vascular system
2. Respiratory System
3. Central Nervous system
4. Special Senses.

### BIOCHEMISTRY

#### Paper I

1. Cell -Cell and cellular organelles
2. Enzymes
3. Vitamins
4. Bioenergetics - Biologic oxidation, electron transport chain and oxidative phosphorylation
5. Carbohydrates  
Digestion and absorption of carbohydrates  
Glucose transporters  
Pathways of carbohydrate metabolism  
Regulation of blood glucose levels  
Diabetes mellitus
6. Lipids  
Digestion and absorption of lipids  
Pathways of lipid metabolism
7. Integration of metabolism
8. Minerals
9. Nutrition

## Paper II

1. Proteins
  - Digestion and absorption of proteins
  - General pathways of amino acid catabolism
  - Metabolism of individual amino acids
2. Nucleotides
  - Metabolism of nucleotides
- i. Homeostatic mechanisms in the body – Acid-base homeostasis and associated disorders, water and electrolyte balance and associated disorders.
- ii. Heme metabolism
- iii. Organ Function tests
- iv. Molecular biology
- v. Miscellaneous topics
3. Metabolism of Xenobiotics
4. Oxidative stress: mechanisms of generation of reactive oxygen species (ROS) in cells and the role of antioxidants

**It was further resolved** that a Minimum of 8 (Eight) Formative Assessments in theory as Internal Assessment Tests/Unit Tests and 3 (Three) Internal Assessments tests in practical shall be conducted for each student during the first year. The average of the Internal Assessment/Unit Test for theory and practicals is to be taken as Internal Assessment Mark.

### Internal Assessment

- Theory – 20 Marks and Practical – 20 Marks.  
( Practical– 15 Marks and Practical Observation/Record – 5 Marks.

This is applicable to the subjects of Anatomy, Physiology, and Biochemistry.

The Internal Assessment Marks shall be sent to the University once in three months.

**A Minimum of 35% in Internal Assessment** (Theory and Practical put together) is essential for appearing for the University Examination.

A suggestive list of topics for Internal Assessment Tests is given below:

- Anatomy - same as given in the existing syllabus.
- Biochemistry - same as given in the existing syllabus.

## PHYSIOLOGY

### Theory - 8

1. General Physiology, Muscle, and Tissues.
2. Blood
3. Digestion
4. Excretion and Body fluids
5. Endocrinology and Reproduction
6. Cardio Vascular System
7. Respiration
8. Central Nervous System and Special Senses

### Practicals - 3

1. Haematology
2. Clinical Examination
3. Model Practical Examination

I am to request that the above decision of the Standing Academic Board may be communicated to all the Professors and Head of Departments for information and for further follow up action in this regard. I am also be request that a copy of this letter shall be displayed on the Notice Board of the College/Hostel for information of the Student community.

The receipt of this letter be acknowledged.

Yours faithfully

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**REGISTRAR**