

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

[MBBS 1123]

NOVEMBER 2023

Sub. Code : 6054

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted from the Academic Year 2019-2020)

FIRST YEAR – (CBME)

PAPER II – PHYSIOLOGY

Q.P. Code: 526054

Time: Three hours

Maximum: 100 Marks (80 Theory + 20MCQs)

Answer All Questions

I. Essay:

(2 x 15 = 30)

1. A 66 year old male with history of hypertension was brought to the Out Patient Department (OPD) with complaints of inability to use his right upper and right lower limb with difficulty in speech following an episode of loss of consciousness.
 - a) What is the most likely diagnosis?
 - b) Explain in detail the course of the pyramidal tracts.
 - c) Write the differences between UMN and LMN lesion.
2. A 55 year old male patient came to the Out Patient Department (OPD) with complaints of headache, giddiness, blurring of vision. On examination his blood pressure was 160/100 mmHg.
 - a) What is the diagnosis?
 - b) Describe the various mechanisms involved in short-term regulation of blood pressure.
 - c) Add a note on Goldblatt hypertension.

II. Write Short Notes on:

(10 x 5 = 50)

1. Draw a normal ECG in lead II. Describe the waveforms with its duration and intervals.
2. Write briefly about hypovolemic shock and its management.
3. Write about the physiological changes at high altitude.
4. Draw a neat diagram of spirogram and mark the normal values of lung volumes and capacities.
5. Write about the peculiarities of pulmonary circulation.
6. Mention the properties of reflexes.
7. Write the causes and features of Parkinson's disease.
8. Write a note on functions of middle ear.
9. What is Dark adaptation?
10. Trace the Taste pathway.
