

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

[MBBS 0123]

JANUARY 2023

Sub. Code : 6053

M.B.B.S. DEGREE EXAMINATION

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

FIRST YEAR – (CBME)

PAPER I – PHYSIOLOGY

Q.P. Code: 526053

Time: Three hours

Maximum: 100 Marks (80 Theory + 20MCQs)

Answer All Questions

I. Essay:

(2 x 15 = 30)

1. Define Immunity. Classify different types of Immunity. Explain in detail the cell mediated Immunity. Add note on Natural Killer cells.
2. Describe how the countercurrent mechanism in the kidney operates to produce hypertonic urine? Add a note on Diabetes Insipidus.

II. Write Short Notes on:

(10 x 5 = 50)

1. Sodium Potassium ATPase pump.
2. Hemolytic anemia.
3. Glucose reabsorption in Nephron.
4. Explain the structure of smooth muscle and its properties.
5. Body Fluid Compartments.
6. Phases of gastric juice secretion.
7. Dietary fibre.
8. Neuroendocrine reflex.
9. Role of Vitamin D in calcium homeostasis.
10. Mechanism of action and functions of testosterone.
