

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

[MD 0723]

JULY 2023
(MAY 2023 EXAM SESSION)

Sub. Code: 2018

M.D. DEGREE EXAMINATION

BRANCH V – PHYSIOLOGY

**PAPER I – GENERAL PHYSIOLOGY, BLOOD, DIGESTION AND
TISSUES OF THE BODY**

Q.P. Code: 202018

Time : Three Hours

Maximum : 100 Marks

I. Essay Questions: **(2 x 15 = 30)**

1. Discuss the Mechanism of Secretion of HCl in stomach and enumerate various experimental evidences of HCl Secretion. Add a note on its Applied Physiology.
2. What is Second Messenger and explain in detail about role of Various Second Messengers in our body? Add a note on its Applied Physiology.

II. Short notes: **(10 x 5 = 50)**

1. Agranulocytes.
2. Succus Entericus.
3. Large Intestinal Movements.
4. ABO incompatibility.
5. All or None Law.
6. Natural Killer Cells.
7. Role of Maturation factors in Erythropoiesis.
8. Rigor mortis.
9. How is fluidity of the blood is maintained in the blood vessels?
10. Cell Organelles.

III. Reasoning Out: **(4 x 5 = 20)**

1. Explain the Physiological basis of prolonged clotting time in a case of Pathological Jaundice.
2. Conduction is possible in only one direction at chemical synapse. Why?
3. Absorption of Fluids and Electrolytes are more in Large Intestine. Explain.
4. Neutrophil count is decreased in Typhoid. Reason out.
