

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

[BHMS 0921]

**SEPTEMBER 2021
(OCTOBER 2020 EXAM SESSION)**

Sub. Code: 1504

**FIRST B.H.M.S. DEGREE COURSE
PAPER IV – PHYSIOLOGY - I
*Q.P. Code : 581504***

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Essay Questions:

(2 x 15 = 30)

1. Define Coagulation of Blood. Name the clotting factors and the mechanisms involved in Coagulation of Blood.
2. Explain the mechanism of Micturition.

II. Write Notes on:

(10 x 5 = 50)

1. Name the plasma proteins, normal values and its functions.
2. What is hypoxia? Types of hypoxia, its causes and effects.
3. Anticoagulants.
4. Briefly explain the events of cardiac cycle.
5. Surfactant-composition, functions and deficiency manifestations.
6. Structure and functions of Sarcotubular system.
7. Factors essential for Erythropoiesis.
8. Explain the nervous regulation of respiration.
9. Factors affecting cardiac output.
10. Peculiarities of renal circulation.

III. Short Answers on:

(10 x 2 = 20)

1. Dialysis.
2. Marey's reflex.
3. Periodic breathing.
4. Peripheral pulses.
5. Vital capacity.
6. Zona occludens.
7. Normal human body temperature.
8. Countercurrent exchanger.
9. Sickle cell anemia.
10. Plasma membrane.
