

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

[BHMS 0222]

**FEBRUARY 2022
(DECEMBER 2020 EXAM SESSION)**

Sub. Code: 1504

**B.H.M.S. DEGREE EXAMINATION
FIRST YEAR (New Regulations – from 2015-2016 batch onwards)
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 Cardiac output. Write in detail about the factors maintaining cardiac output and its variations.
2. Explain the Pulmonary function tests and its measurement using spirometer.

II. Write Notes on: (10 x 5 = 50)

1. Artificial respiration.
2. Define Anemia. Classify anemia and add a note on iron deficiency anemia.
3. Functions of WBC.
4. Caisson's disease.
5. What are the factors affecting GFR?
6. Fate of RBC.
7. Renal function tests.
8. Properties of cardiac muscle.
9. Name the clotting factors involved in coagulation of blood. Add a note on bleeding disorders.
10. Define Micturition, explain briefly the Micturition reflex.

III. Short Answers on: (10 x 2 = 20)

1. Types of nephrons.
2. Physiological importance of surface tension.
3. Immunoglobulins.
4. Pacemaker.
5. Significance of ESR.
6. Polycythemia.
7. Sarcolemma.
8. Auscultatory areas of heart.
9. Sex chromosomes.
10. Water reabsorption from renal tubules.
