

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

[BHMS 0922]

**SEPTEMBER 2022
(DECEMBER 2021 EXAM SESSION)**

Sub. Code: 1504

**B.H.M.S. DEGREE EXAMINATION
FIRST YEAR - SUPPLEMENTARY
(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 Arterial blood pressure. What are the determinants of Arterial blood pressure? Explain the renal regulation of blood pressure.
2. Define erythropoiesis. List the different stages of Erythropoiesis, changes during each stage and factors essential for it.

II. Write Notes on:

(10 x 5 = 50)

1. Leads and waves of electrocardiogram (ECG).
2. Structure of juxtaglomerular apparatus and its functions.
3. Neuromuscular transmission.
4. Conducting system of heart.
5. Erythroblastosis foetalis.
6. Lung volume and capacities.
7. Mechanism of concentration of urine.
8. Causes, symptoms and prevention of decompression sickness.
9. Chemical mechanism of regulation of respiration.
10. Define Glomerular filtration rate .What are the pressures determining and factors regulating GFR?

III. Short Answers on:

(10 x 2 = 20)

1. Hemoglobin.
2. Antibody.
3. Dead space.
4. Oedema.
5. Micturition.
6. Bain bridge reflex.
7. Nephron.
8. Tidal volume.
9. Immunity.
10. Lewis triple response.
