

31 MAR 2022

10194

FIRST YEAR B.H.M.S. EXAMINATION

2022

PHYSIOLOGY INCLUDING BIOCHEMISTRY - PAPER - I

Time: 3 hours

Total Marks: 100

- INSTRUCTIONS: 1. ANSWER EACH QUESTION ON NEW PAGE.  
2. DRAW DIAGRAMS WHEREVER NECESSARY.

SECTION - I

- Q-1 Describe in detail about structure and Property of cardiac Muscle. 15  
OR  
Q-1 Write short notes. 15  
1. Diastolic events of cardiac cycle      2. ECG Leads      3. Heart Sounds
- Q-2 Define erythropoiesis. List the different stages of erythropoiesis. Describe the changes which take place in each stage and the factors necessary for erythropoiesis 15  
OR  
Q-2 Write short notes. 15  
1. Functions of WBC      2. Blood Groups      3. Functions of Lymph
- Q-3 Write Short Notes.(ANY FOUR) 20  
1) Cell Membrane      2) Tight Junction  
3) Short term mechanism for regulation of Blood pressure      4) Osmosis  
5) Plasma Proteins      6) RNA

SECTION - II

- Q-1 Describe Mechanism of Breathing in detail with difference between Pulmonary ventilation and Alveolar Ventilation 15  
OR  
Q-1 Write short notes. 15  
1. Respiratory membrane      2. Lung Volume and Capacities      3. Dead space
- Q-2 Describe physiology of Micturition in detail 15  
OR  
Q-2 Write short notes. 15  
1) Types & histology of Nephron      2) Factors affecting on GFR      3) Reabsorption through Proximal Tubule
- Q-3 Write Short Notes.(ANY FOUR) 20  
1) Glands of Skin      2) Heat Regulatory Mechanism  
3) Simple Muscle Curve      4) Renin- Angiotensin Mechanism  
5) Hypoxia      6) Renal blood circulation