

- 4 MAY 2023

10194  
FIRST B.H.M.S.  
EXAMINATION  
PHYSIOLOGY & 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 Define cardiac cycle. Describe various events of cardiac cycle with pressure & volume changes. 15

OR

Q-1 Write short notes. 15

1. Cardiac murmurs
2. ECG leads
3. Factors maintaining cardiac output

Q-2 Define erythropoiesis. Site of erythropoiesis. Describe stages of erythropoiesis in details 15

OR

Q-2 Write short notes. 15

1. Humeral immunity
2. Rh incompatibility
3. Hemostasis

Q-3 Write short notes (any four) 20

1. Diffusion
2. Acidosis & alkalosis
3. Cell membrane
4. Long term regulation of arterial blood pressure
5. Phagocytosis
6. Spleen

SECTION II

Q-1 Explain in detail the transport of Oxygen(O<sub>2</sub>) in blood. 15

OR

Q-1 Write short notes. 15

1. Pulmonary function tests
2. Dead space
3. Respiratory membrane

Q-2 Define GFR. Its normal values. Describe in detail factors affecting on its & regulation of GFR. 15

OR

Q-2 Write short notes. 15

1. Counter current multiplier
2. Peculiarity of renal blood circulation
3. Difference between cortical & juxtamedullary nephron

Q-3 Write short notes (any four) 20

1. Define hypoxia. Describe Hypoxic hypoxia in detail
2. Micturition reflex
3. Sarcomere
4. Glands of skin
5. Regulation of body temperature by hypothalamus
6. Neuro muscular junction