

10 FEB 2022

10194

FIRST YEAR B.H.M.S. EXAMINATION
FEBRUARY-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 Define arterial blood pressure. Types of blood pressure. Describe factors affecting on them. Explain role of kidney to regulate blood pressure 15

OR

Q-1 Write short notes. 15

- 1) Cardiac Murmur 2) Factors affecting on cardiac output 3) Rhythmicity of Cardiac Muscle

Q-2 Define Hemostasis. Enumerate the name of clotting factors. Describe intrinsic pathway of coagulation of Blood with diagram in detail 15

OR

Q-2 Write short notes. 15

- 1) Anaemia 2) Blood Groups 3) Factors necessary for erythropoiesis

Q-3 Write Short Notes.(ANY FOUR) 20

- 1) Mitochondria 2) Anchoring Junction
3) Reticulo-endothelial System 4) Acid Base Buffer system
5) Diffusion 6) DNA

SECTION - II

Q-1 Describe Nervous Regulation of Respiration in Detail 15

OR

Q-1 Write short notes. 15

- 1) Lung Compliances 2) Oxygen Haemoglobin Dissociation Curve 3) Hypoxia

Q-2 Define GFR and discuss Factors affecting and Regulatory mechanism of GFR 15

OR

Q-2 Write short notes. 15

- 1) Renal Portal System 2) JGA 3) Counter current Multiplier Mechanism

Q-3 Write Short Notes.(ANY FOUR) 20

- 1) Functions of Skin 2) Heat balance
3) Sarcomere 4) Micturition Reflex
5) Difference between Smooth Muscle and skeletal Muscle 6) Respiratory Membrane