

10194
FIRST B.H.M.S.
EXAMINATION

28 OCT 2020

PHYSIOLOGY & BIOCHEMISTRY -PAPER-I

Duration:03Hrs.

Total Marks : 100

Instruction:

- [1]All the Questions are compulsory.
- [2]Write the Both Sections in Separate answer book.
- [3]Draw Diagrams wherever Necessary.
- [4]Figures to the right indicate full Mark

SECTION-I

- Q-1 Describe in detail about structure and Property of cardiac Muscle. 15
- OR**
- Q-1 Define Haemoglobin. Describe its types, Synthesis and functions in detail. 15
- Q-2 What is normal heart rate? Describe various factors influencing heartrate. Add a note on Cardiac arrhythmias. 15
- OR**
- Q-2 1. Describe Coronary Circulation in detail. 08
2. Describe Extrinsic Mechanism of coagulation of Blood 07
- Q-3 **Short notes(Any 3 Out Of 5)** 15
1. Golgiapparatus
 2. Desmosome and Hemidesmosome
 3. Reticuloendothelial System
 4. Blood Groups
 5. Sarcotubular System
- Q-4 **Short Questions** 05
1. Define Cardiac Cycle.
 2. Difference between Osmosis and Diffusion
 3. Define Passive Transport
 4. Define Immunity
 5. What is Occluding Junction?

SECTION-II

- Q-1 Describe Nervous Regulation of respiration in detail 15
- OR**
- Q-1 Describe Mechanism of Excretion of Concentrated Urine 15
- Q-2 Draw labeled diagram of Respiratory Membrane and explain factors affecting diffusion across it and explain Fick's law of Diffusion in detail. **OR** 15
- Q-2 1. Lung volume and Capacities. 08
2. JGA 07
- Q-3 **Short notes(Any 3 Out Of 5)** 15
1. Sweat Glands
 2. Anatomical and Physiological dead space
 3. Chyne stroke Breathing
 4. Renin Angiotensin Mechanism
 5. Contractile Units of Muscle
- Q-4 **Short Questions** 05
1. Define Cynosis
 2. What is SCUBA?
 3. What is Renal Portal System?
 4. Define Resting Membrane Potential.
 5. Enumerate Layers Of Filtering Membrane in Nephron