

04 SEP 2020

10194

FIRST B.H.M.S.
EXAMINATION

PHYSIOLOGY & BIOCHEMISTRY -PAPER-I

Duration: 03 Hrs.

Marks:100

Instruction:

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

SECTION I

- Q - 1 Define Cardiac Cycle and discuss volume changes occurring during cardiac cycle 15
- OR**
- Q - 1 Describe Development, Maturation and Functions of RBC in detail. 15
- Q - 2 Define Blood Pressure. Describe Types and mechanism of regulation of Blood Pressure. 15
- OR**
- Q - 2 A. Define ECG. Describe ECG leads in Detail. 08
B. Types and Functions Of Plasma Protein. 07
- Q - 3 **Short notes (Any 3 Out Of 5)** 15
1. Functions Of cell Membrane
 2. Anchoring Junction
 3. Osmosis
 4. Functions of Platelets
 5. All or None law
- Q - 4 **Short Questions** 05
1. Define Erythroblastosis Foetalis
 2. Define Cardiac Output?
 3. What is Buffer? Name Different Buffer Systems of Body
 4. What is SA Node
 5. What is Active Transport.

SECTION II

- Q - 1 Describe Chemical Regulation of Respiration in Detail. 15
- OR**
- Q - 1 Describe Role of Kidney in regulation of Acid Base balance. 15
- Q - 2 Describe Pulmonary ventilation in detail. 15
- OR**
- Q - 2 1. Oxygen Haemoglobin Dissociation curve. 08
2. Describe Nephron and its Types. 07
- Q - 3 1. Anaemic Hypoxia 15
2. Functions Of Skin
3. Structure of Respiratory Membrane
4. Micturition Reflex
5. Myofibril
- Q - 4 1. What is Total Lung capacity 4. Site & functions of Heat loss centre 05
2. What is Troponin?
3. What is Bohr effect? 5. Define GFR