

17 OCT 2019
10194

FIRST BHMS (NEW SYLLABUS)
Physiology and Biochemistry - Paper I

Time: - 3 Hrs.

100 Marks

Instructions:- [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 Marks

SECTION I

- Q-1 Define stroke volume. It's normal value. Explain the factors regulating cardiac out put in detail. 15
- OR**
- Q-1 Define Erythropoiésis. Site of erythropoiesis. Described stages of erythropoiesis in detail. 15
- Q-2 Which are properties of cardiac muscle? Described in detail each one. 15
- OR**
- Q-2 1. Immunoglobulin(Definition, composition, parts & classification) 08
2. Diastolic event of cardiac cycle. 07
- Q-3 Write Short Note (Any three) 15
- (a) Lymph node (b) ECG Leads
(c) Difference between DNA & RNA (d) Osmosis
(e) Platelets plug
- Q-4 Write short questions. 05
1. What is pulse pressure?
 2. What is function of endoplasmic Reticulum ?
 3. Define diffusion
 4. What do you mean by Rh incompatibility?
 5. Give two difference between HBA & HBF.

Section - II

- Q-1 Describe the transport of carbon dioxide from tissue cells to lungs. 15
- OR**
- Q-1 Describe mechanism of concentration and dilution of urine . 15
- Q-2 Described structure of respiratory membrane, diffusion capacity and mecha of exchange of gases between alveoli and blood. 15
- OR**
- Q-2 1 Define pulmonary ventilation. Described pulmonary functions test in detail. 08
2 Define nephron. Types of it's. Described histology of nephron in detail. 07
- Q-3 Write Short Note (Any three) 15
- (a) Micturition reflex (b) Saltatory conduction
(c) Lung compliance (d) Glands of skin
(e) Bohr's effect
- Q-4 Write short questions. 05
1. What is dead space?
 2. Define sarcomere.
 3. Enumerate structure of JGA.
 4. What is vital capacity?
 5. Enumerate layers of Epidermis of skin.