

29 DEC 2018

10194
FIRST BHMS EXAMINATION

Physiology & Biochemistry
Paper I

Duration: 3 Hrs.

100 Marks

Instruction:

1. Attempt all questions from each section
2. Figures to right indicate full marks
3. Draw figure wherever necessary
4. Write separate sections on separate answer sheets

Section - I

- Q-1 Define hemostasis. Mention the ways through which it achieved. Describe in detail with necessary diagram of extrinsic pathway of blood coagulation. **15**
- OR**
- Q-1 Define cardiac output. Its normal values. Explain the factors regulating cardiac output in detail. **15**
- Q-2 Define erythropoiesis. Sites of its. Describe in detail stages and discuss factors necessary for its. **15**
- OR**
- Q-2
1. Describe classification of WBCs with their morphological characteristics in brief. **07**
 2. Define ECG. Describe ECG leads in detail. **08**
- Q-3 Write Short Note (Any three) **15**
- (a) Immunoglobulin (b) ABO blood group system
- (c) Mitochondria (d) Windkessel's effect
- (e) Acidosis
- Q-4 Short questions **05**
1. Define cardiac cycle.
 2. Difference between serum and plasma
 3. Which organ of the body having red & white pulp?
 4. Full form of RNA. Types of RNA.
 5. Define surface tension

Section - II

- Q-1 write in detail transport of CO₂ by the blood from tissue to lung alveoli. **15**
- OR**
- Q-1 Define nephron. Types of nephron. Give differences between of them. Describe histology of nephron. **15**
- Q-2 Write in detail nervous regulation of respiration. **15**
- OR**
- Q-2
1. Respiratory membrane **08**
 2. Mechanism of reabsorption of glucose from renal tubules **07**
- Q-3 Write Short Note (Any three) **15**
- (a) Factors affecting on GFR (b) Pulmonary functions test
- (c) Structure of skin. (d) Thermoregulatory system
- (e) Resting membrane potential
- Q-4 Short question **05**
1. By which mechanism is water reabsorbed from PCT?
 2. Define work of breathing.
 3. Define muscle tone
 4. Which are the protective functions of skin
 5. What is Borh's effect?