

**SS/MBBS/PHY-I/6-18****First Professional MBBS Examination****2018****(June)****PHYSIOLOGY****Paper-I****Full Marks: 50****Time: 2 hours****The figures in the margin indicate****full marks for the questions****Write the answers to the two Halves in separate books****Answer all questions****FIRST HALF**

1. What is hemostasis? Describe the intrinsic mechanism of coagulation of blood. What is purpura? [ 2 + 6 + 2 = 10 ]

Or

What is cardiac output? Describe the factors regulating cardiac output.

[ 2 + 8 = 10 ]

2. Give the physiological basis (any three) of the following : [3x3 = 9]

(a) Prolonged quiet standing results in fall of blood pressure, dizziness and fainting

(b) Hyperventilation is associated with alkaline urine

(c) Erythroblastosis foetalis

(d) There is oedema in hypoproteinaemia

3. Write briefly on (any two) : [3x2 = 6]

- (a) Vital capacity
- (b) Eosinophil
- (c) Peristalsis

### SECOND HALF

4. Describe how oxygen is transported in the body with special mention to oxyhemoglobin dissociation curve. What is hypoxia? [8 + 2 = 10]

Or

What are the secretions of the glands of gastric mucosa? Describe the cellular mechanism of gastric hydrochloric acid secretions. What is post-prandial alkaline tide? [2 + 6 + 2 = 10]

5. Write short notes on (any three) : 3x3=9

- a) Cyanosis
- b) SA node
- c) Buffer nerve
- d) CCK-PZ

6. Write the difference between the following (any two): 3x2=6

- a) Cortical nephrons and juxtamedullary nephrons
- b) Bronchial breath sound and vesicular breath sound
- c) Simple diffusion and facilitated diffusion

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