



PPP-M20173

Seat No. _____

First Year M. B. B. S. Examination

November / December - 2018

Physiology : Paper - I

Time : 3 Hours]

[Total Marks : 50

- Instructions :**
- (1) Write answers of each section in separate answer book.
 - (2) Answers should be brief and draw necessary diagrams.
 - (3) Illegible writing will not fetch any mark.
 - (4) Figures to the right indicate full marks.

SECTION – I

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|-----------|---|---|
| 1 | Describe the stages and factors affecting erythropoiesis. | 8 |
| OR | | |
| 1 | Enumerate clotting factors and describe the mechanism of coagulation. | 8 |
| 2 | Write notes on :
(a) Transport of oxygen in the body OR Hypoxia.
(b) Saliva OR Exocrine functions of pancreas. | 8 |
| 3 | (a) Describe the mechanism of secretion of HCl in stomach. | 5 |
| | (b) Explain in few sentences :
(a) The term universal donor and recipient are no longer valid.
(b) Normally the alveoli are dry.
(c) Defecation after meal is very common in the children.
(d) Bile is necessary for proper digestion of lipid. | 4 |

SECTION - II

- 4 Describe pressure and volume changes during cardiac cycle. 8
- OR**
- 4 Describe the regulations of arterial blood pressure. 8
- 5 Write notes on : 8
- (a) Glomerular filtration rate **OR** Micturition
 - (b) Pulmonary surfactant **OR** Lung compliance
- 6 (a) Describe the role of skin in regulation of body temperature. 5
- (b) Explain in few sentences : 4
- (a) Constriction of afferent arteriole does not affect filtration fraction.
 - (b) SA node is called as pace maker of heart.
 - (c) Splitting of second heart disappears during expiration.
 - (d) Vasa recta act as counter current exchanger.
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