



J-4650

Seat No. _____

First Year M.B.B.S. Examination

September/October - 2019

Physiology : Paper-1

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 marks.
4. Figures to the right indicate **full** marks.

SECTION – I

- 1 Describe the mechanism of Haemostasis. Also mention a note on anticlotting mechanism and its applied aspects. **8**

OR

- 1 Describe the development, morphology and functions of thrombocyte. Also mention its applied aspects. **8**

- 2 Write notes on : **8**

(A) Transport of oxygen in the body **OR** Periodic breathing.

(B) Mass reflex **OR** Gastric secretions.

- 3 (A) Describe the clinical importance of doing spirometry. **5**

(B) Explain in few sentences : **4**

(a) Failure of pancreatic exocrine function can lead to steatorrhea.

(b) Dead space air is physiologically important.

(c) Bile pigments are not necessary for digestion of lipid.

(d) Presence of food is not necessary for secretion of saliva.

SECTION - II

- 4 Describe the mechanism of regulation of Arterial Blood pressure. 8

OR

Describe the various phases of cardiac cycle with reference to heart sounds. 8

- 5 Write notes on : 8
- (A) Micturition **OR** Juxta glomerular apparatus.
- (B) Pulmonary compliance **OR** Decompression sickness.

- 6 (A) Describe the applications of Renal clearance. 5
- (B) Explain in few sentences : 4
- (a) Oedema develops in renal diseases.
- (b) In histotoxic hypoxia, oxygen therapy has no use.
- (c) Splitting of second heart sound disappears during expiration.
- (d) Exposure to severe cold causes shivering.