



HAX-M20173

Seat No. _____

First Year M. B. B. S. Examination

July – 2017

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 marks.
- (4) Figures to the right indicate full marks.

SECTION - I

- | | | |
|-----------|---|---|
| 1 | Describe the process of Hemostasis. | 8 |
| OR | | |
| 1 | Write the basis of different types of blood groups. Describe the hazards of mismatched blood transfusion. | 8 |
| 2 | Write notes on :
(A) Oxygen - Hemoglobin dissociation curve OR Dysbarism.
(B) Digestion of lipid OR Succus entericus. | 8 |
| 3 | (A) Describe how acid is secreted by the cells of gastric mucosa. | 5 |
| | (B) Explain in few sentences :
(a) Lymphocytes are the basis of acquired immunity.
(b) Apnoea facilitates deglutition.
(c) Salivary amylase cannot act on unboiled starch.
(d) Defecation after meals is very common in the children. | 4 |

SECTION - II

- 4 Define blood pressure. Describe the short term regulation of Arterial Blood pressure. 8

OR

- 4 Describe the normal components of ECG and discuss its significance. 8

- 5 Write notes on : 8

(A) Micturition **OR** Renal function tests

(B) Timed Vital capacity **OR** Non respiratory functions of lungs.

- 6 (A) Describe the physiological changes during Hypoxia. 5

(B) Explain in few sentences : 4

(a) Juxtaglomerular apparatus is an endocrine gland.

(b) Normally atrial and ventricular systoles never overlap.

(c) Capillaries although thin can withstand great amount of internal pressure without bursting.

(d) In summer, urine is highly concentrated.