



HAX-4650

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 Enumerate different clotting factors and describe the mechanism of coagulation. **8**

OR

Describe the structure, function and varieties of Hemoglobin.
Write aetiological classification of anaemia.

- 2 Write notes on : **8**
(a) Transport of carbon dioxide in the body

OR

Hypoxia

- (b) Mass reflex

OR

Saliva

- 3 (a) Describe the clinical importance of timed vital capacity. **5**
(b) Explain in few sentences : **4**
(i) Damage to the gastric mucosa leads to pernicious anaemia.
(ii) Normally the alveoli are dry.

- (iii) Bile is necessary for proper digestion of lipid.
- (iv) Defecation after meals is very common in the children.

SECTION - II

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

OR

Describe the pressure and volume changes during cardiac cycle.

- 5 Write notes on : 8

- (a) Glomerular filtration rate

OR

Juxta glomerular apparatus

- (b) Pulmonary compliance

OR

Surfactant

- 6 (a) Describe the Renal function tests. 5

- (b) Explain in few sentences : 4

(i) Constriction of afferent arteriole does not affect filtration fraction.

(ii) Oxygen dissociation curve is sigmoid in shape.

(iii) Splitting of second heart sound disappears during expiration.

(iv) Humid atmosphere causes much discomfort than dry weather.
