

**XT-110**

**D/ME-21259**  
**First Year B.D.S. Examination**  
**January-2015**

**Faculty Code : D/ME**  
**Subject Code : 21259**

**Time : 3 Hours]**

**[Total Marks : 70**

- Instructions :** (1) Answer each section in answer book.  
(2) Draw diagrams wherever necessary.  
(3) Illegible answers will not carry marks.

**SECTION – I (PHYSIOLOGY)**

1. Define anaemia. Classify anaemia and write about iron deficiency anaemia. **10**

**OR**

Write name of hormones from anterior pituitary and write in detail about functions of growth hormone.

2. Define cardiac output and write a note on regulation and different methods of measurement of cardiac output. **10**

**OR**

Write a note on functions and lesions of cerebellum.

3. Write short on : (Any **three**) **15**

- (1) HB-O<sub>2</sub> dissociation curve.  
(2) ABO Blood group system.  
(3) Action potential.  
(4) Pyramidal tract.  
(5) Errors of refraction.

## SECTION-II (BIOCHEMISTRY)

4. Define polysaccharides. Discuss the structure, functions and types of polysaccharides with suitable examples. 10

**OR**

Describe dietary sources, daily requirements, biochemical functions and deficiency manifestations of Vitamin A.

5. Explain any **two** of the following : 5 × 2 = 10

- (a) Inborn errors of aromatic amino acids metabolism.
- (b) Vitamin B<sub>12</sub>.
- (c) Glycolysis & its energetic.

6. Write short notes on any **three** of the following : 5 × 3 = 15

- (a) Electron transport chain (Respiratory chain).
  - (b) Structure of transfer RNA (t-RNA).
  - (c) Factors affecting enzyme activity.
  - (d) Diabetes mellitus.
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