

First Year M.B.B.S Examination

Oct/Nov--2016

Biochemistry Paper I

9666

Time: 2.30 hr

Total Marks: 50

Instruction: 1) Use separate answer book for each section

2) Answer should be to the point and handwriting should be readable.

3) Draw flow charts wherever applicable.

SECTION I

Q1. State true or false with justification on **any five** 10

- a) Albumin and globulin can be precipitated by half saturation only
- b) Hydrolysis of sucrose is called inversion
- c) Vitamin B₁₂ deficiency leads to folate trap
- d) Methotrexate is an anticancer drug
- e) Several important substances are derived from cholesterol
- f) HDL cholesterol is good cholesterol

Q2. Discuss **any one** 6

- 1) Factors affecting enzyme activity
- 2) Liver Function Tests

Q3. Write short notes on **any three** 9

- a) Amino acid classification based on Nutrition & metabolic Fate
- b) Albumin: functions & dietary sources
- c) Types & functions of Immunoglobulins
- d) Secondary structure of DNA

P.T.O.

SECTION II

Q4. Write your comments on **any five**

10

- a) Hb F has more oxygen carrying capacity than Hb A
- b) AST and ALT are important marker enzymes
- c) Glucose and Glycine both contain carbon atom in their structure but one is optically active and other is inactive
- d) Vit. C deficiency increases bleeding & clotting time
- e) Tryptophan deficiency leads to pellagra
- f) Leading and lagging strands of DNA do not replicate in same manner

Q5. Discuss **any one**

6

- 1) Mutations
- 2) Clinical uses of competitive inhibition of Enzymes

Q6. Write short note on **any three**

9

- 1) Prostaglandin function and clinical uses
- 2) Disease associated with Vit. A & D deficiencies
- 3) Vit. B-12
- 4) Replication bubble