

0819E373

**First Year MBBS Examination
I MBBS Biochemistry Paper 1**

Time: 3 hours

Max Marks: 50

Date: 13-01-2010

Instructions:

1. Answer to the points.
2. Figure to the right indicates marks.
3. Use separate answer books for each section.
4. Draw diagrams wherever necessary.
5. Write legibly.

Section 1

1. Give an account of any TWO of the following

- a) Mucopolysaccharides: structure and(10) functions. (A. 98) (C.22)**

- b) Functions of Phospholipids (A. 108) (C.34)**
- c) Enzyme specificity. (A. 68) (C.95)**

2. Write Short notes of (any three)

- a) Methemoglobin (A. 344) (C.202) (9)**
- b) Respiratory acidosis (A. 405) (C. 482)**
- c) Creatinine clearance test (A. 374) (C.461)**
- d) Van Den Bergh's test (A. 359) (C.455)**
- e) Cori's cycle (A. 134) (C.261)**

3. Discuss Any TWO

- a) Blood buffers. (A. 398) (C.475) (6)**
- b) Protein energy malnutrition (A. 516) (C. 516)**
- c) Antienzymes. (A. 63)**

Section 2

4. Write Short notes on (any two)

- a) Glycolysis (A. 128) (C.245) (10)
- b) B-oxidation of palmitic acid (A. 191) (C.287)
- c) Competitive inhibition of enzymes with example (A. 63) (C. 92)

5. Write Short notes on (any two)

- a) Oncogens (A. 661) (9)
- b) Radioisotopes (A. 683) (C.717)
- c) Uncouplers of oxidative phosphorylation (A. 320) (C.233)
- d) Sickle cell hemoglobin (A. 345) (C.203)
- e) 2.3. BPG cycle (A. 134) (C.251)

6. Give your comments with justification of Any SIX

- a) What is invert sugar? (6)
 - b) Metabolic water.
 - c) Alkaline phosphatase helps in diagnosis of jaundice.
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- d) Acid number is an index of rancidity.**
- e) HDL is called as scavenger of cholesterol.**
- f) Why cataract is a future of galactosemia.**
- g) Explain the action of lovastatin & mevastatin.**
- h) Role of SDA in balanced diet.**