

**Date: 11-07-2011**

**0819E373**

**First Year MBBS Examination**

**I MBBS Biochemistry Paper 1**

**Time: 3 hours**

**Max Marks: 50**

**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 (10)**

a) Role of kidney in acid-base balance (A. 399) (C.477)

b) Clinical importance of enzymes. (A. 78)

(C.105)

c) Thyroid function tests and its clinical importance. (A. 637) (C.465)

**2. Write Short notes of (any three) (9)**

a) Reducing reactions of carbohydrates (A. 91) (C.16)

b) Prostaglandins (A. 243) (C.644)

c) Heme breakdown (A. 330) (C. 214)

d) Oligosaccharides (A. 88) (C.10)

e) Isozymes (A. 69)

**3. Discuss Any TWO (6)**

a) Mechanism of enzyme catalysis (A. 56)

b) Spectroscopy (A. 438) (C.727)

c) Inhibitors of electron transport chain (A. 320) (C. 232)

## Section 2

**4. Write Short notes on (any two) (10)**

a) Gluconeogenesis and its regulation (A. 135) (C.258)

b) Metabolic importance of cholesterol (A. 215) (C.313)

c) Galactose catabolism and related disorders (A. 182) (C.276)

**5. Write Short notes on (any two) (9)**

a) Redox potential and its importance in ATP synthesis. (A. 312) (C.224)

b) Tumor markers (A. 666) (C.691)

c) Immunoglobulins. (A. 649) (C.186)

d) Lipoproteins. (A. 217) (C. 317)

e) Fatty liver. (A. 204) (C.322)

**6. Give your comments with justification of Any SIX (6)**

a) Increased LDL cholesterol is bad for health.

b) Liver Glycogen breakdown increases blood glucose level.

c) Krebs cycle is common oxidative process.

d) Phospholipids are polar lipids.

e) Hyaluronic acid is lubricant in nature.

f) HMP shunt is necessary for RBC

g) Isozymes are important tool for diagnosis for diseases.

h) Methylation of drugs in body makes them less toxic.

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