

Date: 12-07-2010

0819E373

First Year MBBS Examination

I MBBS Biochemistry Paper 1

Time: 3 hours

Max Marks: 50

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) Clinical applications of enzymes. (A. 78) (C.106)
 - b) Prostaglandins. (A. 243) (C.644)
 - c) Structures and functions of normal hemoglobins. (A. 339)
-

(C.196)

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

- a) Km value (A. 61)
- b) Cellulose (A. 97) (C.22)
- c) Inulin clearance test (A. 377) (C.460)
- d) Function of cholesterol (A. 214) (C.313)
- e) Glycosides (A. 93) (C.17)

3. Discuss Any TWO (6)

- a) Paper electrophoresis. (A. 432) (C. 725)
- b) Metabolic acidosis (A. 402) (C.481)
- c) Mitochondrion: Structure & Functions. (A.12) (C.6)

Section 2**4. Write Short notes on (any two) (10)**

- a) Hexose Monophosphate shunt (A. 144) (C.270)
- b) Digestion and absorption of lipids (A. 191) (C.173)
- c) Gluconeogenesis (A. 135) (C.258)

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

- a) Tumor markers. (A. 666) (C.691)
- b) Immunoglobulins: Types & Functions (A. 649) (C.186)
- c) Oxidative phosphorylation (A. 318) (C.228)
- d) Isoenzymes (A. 69) (C.109)
- e) Fatty liver. (A. 204) (C.322)

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

- a) Define clearance. Give normal value for creatinine clearance.
- b) G 6 P D deficiency causes hemolysis. (A. 434)

- c) Principle and uses of chromatography (C.719)
- d) Fluoride bulb is used in blood sugar estimation.
- e) Antioxidant enzymes and their action.
- f) The role of carnitine in B-Oxidation of fatty acids.
- g) Lipids yield more energy than carbohydrate.
- h) Albumin/Globulins ratio is reversed in liver diseases.