

Date: 11-10-2016

Preli

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. Answer in detail: (any two) (10)

- a. Liver function tests
- b. Porphyria
- c. Isoenzymes & their applications in medicine

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

- a. Factors affecting enzyme's activity
- b. Thalassemia
- c. Hemopolysaccharides
- d. Lecithin
- e. Prostaglandins

3. Write Short notes on (any two) (6)

- a. Metabolic acidosis
- b. Active transport mechanism
- c. ELISA

Section 2

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

- a. Glycogen metabolism
- b. Fatty acid oxidation
- c. TCA cycle

5. Write Short notes on (any three) out of five) (9)

- a. Antioxidants
- b. Electron transport chain
- c. Lead poisoning
- d. Tumor markers

e. Immunoglobulin

6. Write Justification of following statements:(any six) (6)

- a. Mitochondria are known as power house of cell
- b. LDL is known as bad cholesterol
- c. Insulin is used for assessment of glomerular function
- d. Glucose 6 phosphate dehydrogenase deficiency leads to hemolytic anemia
- e. Glycosylated Hb is used for monitoring of glycemic control of diabetics
- f. Glycosylated Hb is used for monitoring of glycemic control of diabetics
- g. Liver can synthesize ketone bodies but liver cannot use them
- h. Person suffer from Respiratory alkalosis while climbing to high altitude