

**Date: 05-10-2013****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. Write short notes on: (any two) (10)**

- a. Discuss Oxidative Phosphorylation and mention Uncouples
- b. What are enzymes? Discuss the factors affecting enzyme action
- c. Mention the various types of abnormal hemoglobin and discuss sickle cell disease

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

- a. Diagnostic Importance of Enzyme
- b. Prostaglandins
- c. Glycoproteins

- d. Phospholipids
- e. 2,3 BPG and its clinical significance

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

- a. Liver function test
- b. Role of kidney in acid base balance
- c. Electrophoresis

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## Section 2

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

- a. Beta oxidation of fatty acids
- b. Glycolysis and its regulation with energetic
- c. Metabolic fate of Acetyl CoA

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

- a. Give causes, sources and health hazards of air pollution
- b. Immunoglobulin
- c. Proto-oncogenes and Oncogenes
- d. Free radicals and importance of antioxidants
- e. ATP

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

- a. Cellulose cannot be digested and absorbed by human
- b. LDH is not the preferable test in myocardial infarction (MI)
- c. Fluoride is used as an anticoagulant for blood sugar estimation
- d. Role of Pravastatin in cholesterol synthesis
- e. HDL is a good Cholesterol and LDL is known as a bad cholesterol
- f. Personal with sickle cell trait are resistant to malaria caused by plasmodium falciparum.

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