

Date: 11-10-2014

# **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)
  - a. Enzyme inhibition with suitable examples
  - b. Jaundice
  - c. Blood buffers and its importance (10)

2. Write Short notes on (any three)

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a. Various types of abnormal hemoglobin

- b. Prostaglandins
- c. Active transport
- d. Enzyme inhibition
- e. Glycoproteins (9)

3. Write Short notes on (any two)

- a. Diagnostic importance of Enzyme assay
- b. Renal function tests
- c. Electrophoresis (6)

## Section 2

4. Write Short notes on (any two)

- a. Lipoproteins
- b. Electro transport chain and its inhibitors
- c. Diabetes mellitus and its complications (10)

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

- a. Purine Salvage pathway
- b. Tumour markers
- c. Cell mediated immunity
- d. Health hazards of air pollution
- e. High energy compounds (9)

6. Read the case report and answer the following: A 50-year-old obese male is admitted to hospital with complaints of severe chest pain sharpness of breath

and sweating. (6)

ECG changes and blood enzyme profile confirmed the diagnosis of arcade.

- a. What are isoenzymes?
- b. What are isoenzymes of LDH?
- c. Mention common risk factors of coronary artery disease
- d. Which are the different cardiac markers?
- e. Which are the drugs used to lower serum cholesterol level?
- f. Which enzymatic preparation can be used therapeutically to dissolve the clots?

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