

Date: 05-12-2014

## **Preli**

### **First Year MBBS Examination**

### **I MBBS Biochemistry Paper 2**

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. PCR technology its advantages & medical applications
- b. DNA Replication
- c. Metabolic adaptation during fed & starvation

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

- a. Genetic code
- b. Lac operon
- c. ~~Post transcriptional modifications~~

- d. Structure of t RNA
- e. Mutations

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

- a. BMR
- b. Digestion & absorption of fats
- c. Obesity

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## Section 2

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

- a. Fate of Ammonia
- b. Hyperuricemia & Gout
- c. Phenylalanine metabolism & related disorders

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

- a. Purine Salvage pathway
- b. Beri Beri
- c. Biological functions of Selenium
- d. Tertiary Structure of protein
- e. Deficiency manifestations of Vitamin B12

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

- a. Calcium deficiency leads to Osteomalacia
  - b. Decrease activity of Telomerase can be one of the reason of aging
  - c. Very high temperature decrease enzyme activity
  - d. Methylation of DNA is important in functioning of mismatch repair
  - e. Uronic acid pathway is related with detoxification
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f. Hyperventilation causes metabolic alkalosis

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