

Date: 11-12-2014

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. DNA Replication and its inhibitors
 - b. PCR technique and its application
 - c. Metabolic adaptation during fed and starvation
2. Write Short notes on (any three) (9)
 - a. Mutation
 - b. Posttranscriptional modifications

- c. Urea cycle
 - d. t-RNA
3. Write Short notes on (any two) (6)
- a. BMR
 - b. Marasmus
 - c. Blotting technique

Section 2

1. Write Short notes on (any two) (10)
- a. Formation of ammonia and its fate
 - b. Hyperuricemia
 - c. Classification of proteins with examples
2. Write Short notes on (any three) (9)
- a. Selenium
 - b. Antioxidant vitamins
 - c. Methyl folate trap
 - d. One carbon metabolism
3. Write Justification of following statements:
(any six) (6)
- a. Ethanol is antidote of methanol poisoning
 - b. Glycolysis in RBC ends in lactate production

- c. Tyrosine is an essential amino acid for patients of phenylketonuria
 - d. Calcium deficiency leads to osteomalacia
 - e. Very high temperature decrease enzymes activity
 - f. Hyperventilation causes metabolic alkalosis
 - g. Cellulose cannot be digested and absorbed by human
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