

# First Year MBBS Examination

## I MBBS Biochemistry Paper 1

Date: 05-02-2015

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

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

- a. Post transcriptional modification (A. 572) (C. 547)
- b. Southern blot techniques (A. 609) (C. 382)
- c. Structure and functions of t-RNA (A. 578) (C. 81)
- d. Lac operon (A. 595) (C. 567)
- e. Mutation (A. 591) (C. 535)

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

- a. Metabolic adaptation during fed and starvation (A. 122) (C. 383)
- b. Balanced diet (B. 761) (C. 514)
- c. Protein energy malnutrition (PEM) (A. 516) (C. 516)

### Section 2

4. Give an account on (any two) (10)

- a. Describe one carbon metabolism: Generation and utilization (A. 262) (C. 363)
- b. Describe primary and secondary structure of protein with example
- c. Normal blood level of calcium and factors regulating it and disorders

## 5.A. Write Short notes on (any three) (9)

- a. De novo synthesis of pyrimidine
- b. Disorders of purine metabolism
- c. Biological function of Vitamin C
- d. Vitamin E
- e. Biologically active nucleotides

## 6. Write Short notes of (any six) (6)

- a. Tryptophan deficiency causes pellagra
- b. Vitamin B12 deficiency causes anaemia
- c. Hemolysed sample should not be used for estimation of serum potassium
- d. Deficiency of enzyme Tyrosinase causes Albinism
- e. Copper level in blood is lowered in Wilson's disease
- f. Cyanide poisoning causes tissue anoxia
- g. Hyperammonia is toxic
- h. HDL cholesterol is good cholesterol

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