

Date: 11-12-2015

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) Hyperuricemia & Gout
- b) Replication and its inhibitors
- c) PCR technique & its medical application

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

- a) Genetic Code
- b) Mutation
- c) Blotting technique
- d) Structure & functions of t-RNA

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

- a) Metabolic adaptation during fed
- b) BMR
- c) Protein energy malnutrition (PEM)

Section 2

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

- a) Urea cycle & its inborn errors
- b) Plasma proteins & their clinical significance
- c) Blood calcium regulation

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

- a) Biochemical functions of vitamin D
- b) Antioxidant vitamins
- c) Salvage pathway of purines & its importance
- d) One carbon metabolism
- e) Deficiency manifestations of Vitamin B12

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

- a) Hyperuricemia is seen in patients of leukemia on chemotherapy
- b) Vitamin B12 deficiency leads to folate trap
- c) Some RNA acts as enzymes
- d) Nucleotide analogues are used in treatment of cancer
- e) Chargaff's rule is applicable in DNA but not in RNA
- f) Urine of alcaptonuria patients turns black on exposure to air
- ~~g) Deficiency of α_1 -antitrypsin can cause emphysema~~

h) Vitamin E & Se acts synergistically

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