

K 4106

First Year MBBS Examination

I MBBS Biochemistry Paper 2

Time: 3 hours Date: 06-12-2013 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. Give an account of: (any two) (10)
 - a. Recombinant DNA technology and its uses in clinical medicine (A. 600) (C. 579)
 - b. Write various inborn errors of aromatic amino acid
 - c. DNA replication process and its inhibitors (A. 559, 565) (C. 524, 528)
2. Write Short notes on (any three) (9)
 - a. t-RNA (A. 578) (C. 81)
 - b. Mutation (A. 591) (C. 535)
 - c. Gene expression
 - d. Post transcription modification (A. 572) (C. 547)
 - e. Biological significance of nucleotides
- ~~3. Write Short notes on (any two) (6)~~

- a. Basal metabolic rate (BMR) (A. 512) (C.504)
- b. Marasmus and Kwashiorkor (C.516)
- c. Metabolic adaptation in fed and starvation state (A. 122) (C. 383)

Section 2

1. Give an account on (any two) (10)
 - a. Classification of proteins with example (A. 43) (C. 63)
 - b. Iron
 - c. Formation of ammonia and its fate (A. 257) (C.335)
2. Write Short notes on (any three) (9)
 - a. One carbon metabolism (A. 262) (C.363)
 - b. Rhodopsin cycle (A. 454) (C.129)
 - c. Salvage pathway of purine (A. 546) (C. 391)
 - d. Gout (A. 548) (C. 394)
 - e. Pernicious anaemia
3. Write Short notes of (any six) (6)
 - a. Replication in semi-conservative
 - b. Tyrosine is an essential amino acid for patients of phenylketonuria
 - c. DNA finger printing can reveal the identity of a person
 - d. In vitamin C deficiency there is delayed wound healing
 - e. Proteins can be separated by

electrophoresis

f. Iodine deficiency leads to Goitre

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