

## 0819E379

## First Year MBBS Examination I MBBS Biochemistry Paper 2

Time: 3 hours Max Marks: 50

- 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 of the following (10)
  - a) Describe various steps in recombinant DNA Technology and its application in medical sciences (A. 600) (C. 579)
  - b) How blood calcium homeostasis is

- c) Biologically important molecules synthesized from phenylalanine and tyrosine. (A. 289) (C.348)
- 2. Write Short notes of (any three) (9)
  - a) Watson-crick model of DNA structure (A. 556) (C.73)
  - b) Functions and deficiency of vitamin C (A. 481) (C.132)
  - c) Mutations (A. 591) (C.535)
  - d) Post translational modifications (A. 584) (C.561)
  - e) Modified nitrogenous bases as anticancer agents (A.546, 551)
- 3. Discuss Any TWO (6)
  - a) Calculate the energy requirement of a

- b) Role of liver in integrating the metabolism of various biomolecules (A. 121) (C.382)
- c) Short note on gout (A. 548) (C. 394)

## **Section 2**

- 4. Write Short notes on (any two) (10)
  - a) Secondary structure of proteins (A.38) (C. 56)
  - b) How ammonia is detoxified in human body (A. 258) (C.335)
  - c) Briefly discuss requirement, source, factors effecting absorption and regulation of iron absorption. (A. 498) (C.414)
- 5. Write Short notes on (any two) (9)

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  a) Write coenzyme form of different water soluble vitamins in table format. (A. 55)
- b) How pyrimidines are biosynthesized in our body. (A.549) (C.398)
- c) Short note on Kwashiorkor. (A. 517) (C.516)
- d) Adenosine deaminase deficiency. (A. 549) (C.397)
- e) Maple syrup urine disease. (A. 282) (C.365)
- 6. Give your comments with justification of Any SIX **(6)** 
  - a) Deficiency of which enzyme leads to phenyketonuria.
  - b) Deficiency of B6 vitamin leads to decrease hemoglobin.

- c) Taking a mixed protein diet leads to improved body growth.
- d) Deficiency of copper leads to weakening of wall of major blood vessels
- e) Folic acid deficiency leads to homocystenemia.
- f) FIGLU test. (A. 297)
- g) Proline is not an amino acid.
- h) What is the major energy source of brain in starvation? Man Files Ral

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