

Date: 12-07-2013

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) Biochemical functions and deficiency symptoms of vitamin C.(A.481)(C.132)
 - b) Serum calcium homeostasis (A. 493)(C. 407)
 - c) Biologically important compounds
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formed from glycine(A.268)(C.342)

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

- a) Oncogenes (A. 664) (C.687)
- b) Replication of DNA (A. 559) (C.524)
- c) Formation of uric acid (A. 547) (C.392)
- d) Denaturation of proteins (A. 44) (C.61)
- e) Lac operon model (A. 596)(C.567)

3. Discuss Any TWO (6)

- a) Pellagra (A. 470) (C.141)
- b) Dietary fiber (A. 514) (C. 508)
- c) Basal metabolic rate (A. 512) (C.504)

Section 2

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

- a) Genetic code (A. 580) (C.551)
- b) Proteolytic enzymes (A. 252) (C.170)
- c) Metabolic role of methionine (A. 272) (C.358)

5. Write Short notes on (any two) (9)

- a) Bence Jones protein (A. 378, 651) (C.189)

- b) Lesch-Nyhan syndrome (A. 549) (C.396)
- c) Calorific value (A. 511) (C.503)
- d) Metabolic role of copper and zinc (A. 503, 504) (C.416,419)
- e) Biochemical role of vitamin K (A. 461) (C.130)

6. Give your comments with justification of Any SIX (6)

- a) Anion gap refers to unmeasured anions in plasma.
 - b) Reverse transcriptase inhibitors are used to treat HIV infection.
 - c) Folic acid should not be administered in vitamin B12 deficiency.
 - d) Penicillamine is used in the treatment of Wilson's disease.
 - e) Tryptophan metabolism leads to the formation of NAD in the body.
 - f) FIGLU excretion test is used to detect folic acid deficiency.
 - g) Bilirubin is made water soluble by conjugation.
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h) Methanol poisoning can be alleviated by ethanol.

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