

Date: 13-01-2012

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) Serum calcium homeostasis (A. 493) (C. 407)

b) Biochemical functions and deficiency symptoms of vitamin C (A. 481) (C.132)

c) Biochemical important compounds

formed from Glycine (A. 268) (C.342)

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

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

3. Discuss Any TWO (6)

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

Section 2

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

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

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

- a) Calorific value. (A. 511) (C. 503)
- b) Biochemical role of vitamin K (A. 461) (C.130)
- c) Lesch-Nyhan syndrome (A. 549) (C.396)
- d) Bence jones protein (A. 651) (C.189)
- e) Importance of copper and Zinc in the body (A. 503, 504) (C.416, 419)

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

- a) Bilirubin is made water soluble by conjugation reaction.
- b) Methanol poisoning can be alleviated by ethanol.
- c) FIGLU excretion test is used to detect folic acid deficiency. (A. 297)
- d) Penicillamine is used in the treatment of Wilson's disease.
- e) Tryptophan metabolism leads to the formation of NAD in the body.
- f) Folic acid should not be administered in

cyanocobalamin deficiency.

g) Reverse transcriptase inhibitors are used to treat HIV infection.

h) Anion gap refers to unmeasured anions in plasma.

www.FirstRanker.com