

Date: 13-01-2017

0819E379

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. Give an account of any TWO of the following (10)

**a) PCR techniques and applications (A.612)
(C.594)**

**b) Protein energy malnourishment (A. 517)
(C. 516)**

c) Obesity (A. 517) (C.325)

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

**a) Differences between DNA & RNA (B.
248) (C.73)**

**b) t-RNA: structure and functions (A. 578)
(C. 81)**

**c) Application of Recombinants DNA (A.
600) (C. 579)**

**d) Reverse transcriptase enzyme (A. 573)
(C. 550)**

e) Genome library (C. 596)

3. Discuss Any TWO (6)

- a) Adaptations in starvation (A. 122) (C. 383)**
- b) Biological value of proteins (A. 516) (C. 512)**
- c) Ketoacidosis (A. 207) (C. 297)**

Section 2

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

- a) Transamination (A. 256) (C. 332)**
- b) Functional classification of proteins (A. 43) (C. 63)**
- c) Wilson's Disease (A. 389) (C.417)**

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

- a) Salvage pathway of purine synthesis (A. 546) (C.391)**
- b) Role of Vitamin A (A. 454) (C. 119)**

c) Deficiency disorder of Folic Acid (A. 475)
(C. 151)

d) Antioxidant vitamins (A. Vitamin A,E,C)

e) Hyperuricemia (A. 548) (C. 394)

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

a) Lesch-Nyhan syndrome (C.396)

b) Glycine metabolites

c) Essential amino acids (C.48)

d) Role of carbamoyl-phosphate synthase II

e) Beriberi (C.135)

f) Perniceous anemia

g) Antivitamin compounds

h) Zinc deficiency