

Date: 13-07-2011

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) Physiologically important substances synthesized from phenylalanine. (A. 289)
(C.348)

b) Role of folate and cyanocobalamine in DNA synthesis. (A. 474, 478)

c) Purine salvage pathway. (A. 546) (C. 391)

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

a) Vectors for DNA recombination (A. 601) (C.582)

b) DNA polymerases (A. 560) (C.527)

c) Synthesis of Uric acid from hypoxanthine (A. 547) (C.392)

d) Transamination ant its significance (A. 256) (C.332)

e) Codons. (A. 580) (C.551)

3. Discuss Any TWO (6)

a) Fats ant its nutritional importance. (A. 514) (C.509)

~~b) Minerals for erythropoiesis (A. 499, 503)~~

Section 2

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

- a) Formation of ammonia and its fate (A. 257) (C.335)
- b) Hyperurecemia and gout (A. 548) (C. 394)
- c) Role of calcium in the body (A. 493) (C. 404)

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

- a) Biomolecules synthesized from glycine. (A. 268) (C.342)
- b) Phenylketonuria and albinism (A. 292) (C.351)
- c) Osteomalacia and osteoporosis (A. 496) (C.127, 409)
- d) Biochemical role of Retinal (A. 454) (C.121)
- e) Thiamine pyrophosphate. (A. 466) (C.135)

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

- a) Vitamin E is an anti-oxidant. (C.128)
- b) Vitamin C is required for collagen synthesis. (C.132)
- c) Zinc is present in every cell of the body
- d) Iodine deficiency leads to Goitre.
- e) Polymerase chain reaction gives clones.
- f) Nucleotides are required in co-enzyme formation.
- g) Calcitriol functions as hormone.
- h) Only ferrous form of iron is biologically active as respiratory factor.