

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. Write short notes on the following

- a) Gout (A.548) (C.394) **(10)**
- b) Phenylketonuria and Alkaptonuria(A.292) (C.351)
- c) Hormonal regulation of plasma calcium

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

- a) DNA structure(A.556) (C.73)
- b) Post-transcriptional changes (A.572) (C.547)
- c) Genetic code(A.580)(C.551)
- d) t-RNA structure and functions(A.578) (C.81)
- e) Applications

3. Discuss Any TWO (6)

- a) Biochemical changes in starvation (A. 122) (C.383)
- b) Role of liver in integration metabolism
- c) Role of dietary fiber in the body(A. 514) (C. 508)

Section 2

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

- a) Disposal of ammonia
- b) Absorption, transport and storage of Iron(A. 499) (C.414)
- c) Albumin

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

- a) Metabolic role and deficiency manifestation of ascorbic acid(A. 481) (C. 132)
- b) Purine salvage pathway (A. 546) (C. 391)
- c) Biologically important nucleotide
- d) Disorder of pyrimidine synthesis
- e) Write coenzymes form of following vitamin and write one reaction in which they participate a) Pyridoxine(A.471) (C.143) b) Thiamine c) Niacin

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

- a) Significance of primary structure of protein
- b) Emphysema
- c) The structure analogs of folic acid are widely used to control cancer
- d) Fluoride prevents the development of dental caries
- e) Selenocysteine
- f) Restriction endonucleases (A. 601) (C.579)
- ~~g) S-Adenosyl methionine (SAM)~~

h) One cistron one subunit concept

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