

BIOCHEMISTRY

Paper - 1

OCTOBER 2003

(2 ½ hours)

Total marks : 35

SECTION – B

2. Write short answers (any 5 of 6) :

10

- a) Uncouplers of oxidative phosphorylation.
- b) IGA
- c) Composition and two functions of Glutathione.
- d) Types and functions of endoplasmic reticulum.
- e) Define isoelectric pH. Give two properties of a protein at its isoelectric pH.
- f) What is the source and coenzyme form of Niacin in the body? Give one reaction as coenzyme.

3. Solve (any 2 of 3) :

08

- a) Application of recombinant DNA technology.
- b) Phenyl ketonuria.
- c) A 4 year old boy complains of joint pain, aggressive behavior, learning disability and urge of bite his own fingure and lips. His serum uric acid is above normal.
 - i) Name the disorder and Enzyme defect.
 - ii) Draw the reaction catalyzer.De
 - iii) What is normal uric acid level and explain the cause of hyperuricemia observed above.

SECTION – C

4. Describe various types of enzyme inhibition with suitable examples. Explain how enzyme inhibitors act as drugs,giving two examples.

09

OR

Describe the formation and fate of Ammonia.

5. Answer (any 2 of 3) :

08

a) Genetic Code.

b) Kwashiorker and Marasmus.

c) Chemiosmotic hypothesis of oxidative phosphorylation.

