

BIOCHEMISTRY

Paper - 1

MAY 2003

(2 ½ hours)

Total marks : 50

SECTION – B

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

10

- a) Optimum pH of an enzyme.
- b) I131
- c) Types and functions of immunoglobulins.
- d) Name the stages of transcription.
- e) Draw and label the structure of t-RNA.
- f) Define antioxidant. Name the any two vitamins with antioxidant property.

3. Solve (any 2 of 3):

08

- a) Transamination.
- b) Characteristics of genetic code.
- c) A twenty three year old woman had complaints of weakness and lethargy. Her hemoglobin level was 7g/dl. Her blood was found to contain large abnormal immature erythrocytes. This woman had a highly elevated excretion of FIGLU ; a metabolite of Histidine in urine.
 - i) What is the probable cause of anemia ?
 - ii) Which type of anemia does the patient suffer from? What is its biochemical basis?

SECTION - C

4. Explain the synthesis, break down, metabolic role and metabolic defects in Glycine metabolism.

09

OR

Explain with example various types of enzyme inhibition.

5. Answer (any 2 of 3):

08

a) Cytochrome P450.

b) Metabolic role and deficiency manifestation of Ascorbic acid.

c) Functions of plasma proteins.

