

BIOCHEMISTRY

Paper - 1

MAY/JUNE 2013

(2 ½ hours)

Total marks : 40

SECTION – B

2. Brief answer question : (any 6 of 7) :

(6x4=24)

- a) Describe Biochemical functions of Folic acid.
- b) Explain Malate Asparate Shuttle.
- c) Explain conjugated Proteins.
- d) Explain enzymes of diagnostic importance in Cardiac disease.
- e) 60 years old woman complain of pain and swelling in joints and her serum uric acid level was found to be 13 mg/dl
 - 1) Name the probable disease.
 - 2) Name the enzyme defect.
 - 3) What are the normal serum Uric acid level in the body.
 - 4) Suggest Treatment.
- f) State any four applications of recombinant DNA technology.
- g) A ten year old boy had difficulty to see in dim light in the evening and while he entered in to cinema theater. His plasma retinol level was very low.
 - 1) Name the vitamin deficiency responsible for this.
 - 2) Name the disease.
 - 3) What is biomedical basis of above manifestation.
 - 4) What is treatment for this condition.

SECTION – C

3. Long answer Question : (any 2 Of 3) :

(2x8=16)

- a) What is biochemical basis of Alkaptonuria? What test will you do to diagnose Alkaptonuria?
- b) Describe the process of DNA replication. Name the two inhibitors of replication.

c) Describe formation and fate of Bilirubin. Add a note on Jaundice.

