BIOCHEMISTRY

Paper - 1

WINTER 2012

(2 ½ hours) Total marks : 40

SECTION - B

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

(6x4=24)

- a) Write short note on a reverse transcription.
- b) Isoenzymes and their clinical application.
- c) Genetic code.
- d) Define an antioxidant. Name antioxidant enzymes. Vitamins and minerals.
- e) Purine salvage pathway.
- f) Deficiency manifestations of Vitamin A.
- **g)** A 2 year old boy was brought to paediatric OPD with complaints of listlessness, apathy and recurrent infection. O/E the child had puffy face and oedema on feet. The hair was light in colour and dry serum total protein value was 5 gm/dl and albuim was 2 gm/dl.
 - i) What is the probable diagnosis.
 - ii) Give the biochemical basis of the findings.
 - iii) Give the outline of the treatment.

SECTION - C

3. Solve (any 2 of 3):

(2x8=16)

- a) Describe the catabolism of hemoglobin with its significance.
- **b)** Describe the pathway for biosynthesis of urea from ammonia. Add a note on a metabolic disorders of urea cycle.
 - c) Describe the process of oxidative phosphorylatin.