

BIOCHEMISTRY

Paper - 1

NOV./DEC.2008

(2 ½ hours)

Total marks : 40

SECTION – B – (SAQ)

2. Write in brief : (any 6 of 7) :

(6x4=24)

- a) Km value.
- b) Uncouplers of oxidative phosphorylation.
- c) Gout.
- d) Polymerase chain reaction.
- e) A three year old child from a poor illiterate family reported with edema, discoloration of hair and skin, anemia, diarrhea. His serum albumin and K⁺ were low.
 - i) Give the diagnosis and etiology.
 - ii) What is the cause of edema?
 - iii) Suggest line of treatment and preventive measures.
- f) Diagnostic importance of enzymes in myocardial infarction.
- g) A middle aged woman reported with history of pain in the back and limbs. She also gave history of pathological fracture. Her bone scan revealed low bone-density.
 - i) What is the diagnosis and probable cause?
 - ii) Which serum enzyme level will be affected?
 - iii) Suggest the treatment and preventive measures.

SECTION – C – (LAQ)

3. Solve (any 2 of 3) :

(2x8=16)

- a) Describe the process of transamination and deamination in the body. Add a note on ammonia toxicity.
- b) Describe biochemical functions, dietary sources, deficiency manifestations and daily requirements of Thiamin.

c) Describe the pathway of Heme biosynthesis and its regulation. Write in brief about Acute intermittent Porphyria.

