

BIOCHEMISTRY

Paper - 2

MAY/JUNE 2007

(2 ½ hours)

Total marks : 40

SECTION – B

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

(6x4=24)

- a) Glycogen storage disease.
- b) Fatty liver and Lipotropic factors.
- c) Urea clearance.
- d) Chemical carcinogens.
- e) Metabolic acidosis.
- f) A patient in the hospital and seizures and usually appear weak and tired. Physical finding was deposition of copper in eyes as green ring round the comes and hepatomegaly.
 - i) What is the probable disease?
 - ii) What is biochemical problem in this disease?
 - iii) What is treatment to this disease?.
 - iv) Name any four copper containing enzymes.
- g) A 3 year old boy with mental retardation was found to have cataracts. Biochemical investigations show high blood concentration of galactose.
 - i) Name the probable disease and name the enzyme most likely to be defective.
 - ii) What is the cause for development of cataract ?
 - iii) Give the reaction catalyzed by defective enzyme.
 - iv) What is treatment for this disease?

SECTION – C

3. Long answer questions: (any 2 of 3)

(2x8=16)

- a) Describe Hexose Monophosphate Shunt. What is significance of HMP Shunt?

b) Give an account of biosynthesis of cholesterol. State its functions of cholesterol.

c) Write in detail about the factors influencing calcium absorption in the body. Write its function.

