

BIOCHEMISTRY 2
SUPPLEMENTARY EXAM-2016

(2 ½ hours)

Total Marks: 40

SECTION-B-(SAQ)

(24 Marks)

2. Short answer question : (Any six out of seven) (6x4=24)

- a) Formation and transport of Chylomicrons.
- b) Creatinine Clearance Test.
- c) Chemical Carcinogens
- d) Phase II Detoxification.
- e) Regulation of Blood Calcium level.

f) A 55 years old hypertensive male comes with complaints of dry and painful eyes for few weeks. On examination, he was afebrile, BP was 150/98 mm of Hg. Facial and lower limb oedema was present. Laboratory findings are as follows Fasting Blood Sugar -280 mg/dl, Urine Sugar ++, Urine Proteins +++, Serum Albumin 2 gm/dl, Serum Cholesterol 290 mg/dl, Serum Creatinine-2.5 mg/dl, Blood urea 130 mg/dl.

- i) What is the probable diagnosis?
- ii) What are the causes of disease ?
- iii) What will be the line of the treatment?

g) A one year old child reported to the hospital with vomiting, jaundice, lethargy. Examination revealed hepatosplenomegaly and cataract. His blood galactose levels were raised.

- i) What is the probable diagnosis?
- ii) State the enzyme defect.
- iii) What is the pathophysiology of cataract ?

SECTION C (Iaq) (16 Marks)

Long answer question (Any two out of (2x8=16))

- a) Describe the process of glycogenolysis and its regulation. Write in brief about glycogen storage disease.
- b) Describe the Regulation of Acid Base Balance. Write in brief about Acid Base imbalance and its causes.
- c) What are ketone bodies ? Describe in detail synthesis, utilization and catabolism of ketone bodies.