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BAHI-005

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BSCMLT)

00222

Term-End Examination

December, 2013

BAHI-005 : CLINICAL BIOCHEMISTRY

Time : 3 Hours *Maximum Marks : 70*

PART-A

1. Complete the following : **2x10=20**

(a) Normal calcium level in serum is around _____ mg /dl.

(b) Normal value of glycosylated haemoglobin is _____ .

(c) _____ is an example of genetic material.

(d) Normal values of serum alkaline phosphatase is _____ K.A units /L

(e) An essential amino acid which cannot be synthesized by body is _____ .

(f) Normal level of serum bilirubin is _____ mg/dl.

(g) Glycogen storage disease (von Geirke's disease) is done to the deficiency of enzyme _____ .

(h) Normal range of serum amylase level in health is _____ somogyi units/dl.

(i) Normal ratio of Albumen to globulin serum (A/G ratio) is _____ in adults.

(j) The level of CPK(MB) enzyme is highly specific for early diagnosis of _____ .

PART - B

Answer **any three** questions. Each carries **ten marks.** **10x3=30**

2. Define lipids. How the fatty acids are broken down. Give brief outline of this breakdown pathway.

3. How do you perform glucose tolerance test (GTT) in a patient ? With the help of a diagram, explain the GTT for a normal person. Write the significance of glycosylated haemoglobin (Hb A,C).

4. Discuss the role of CPK (creatinine phosphokinase) SGOT, LDH and CK - MB (Isoenzyme) in assessing cardiac profile of a patient.

5. Give the basic structure of RNA. Enumerate the various types of RNA that may be present in human cell. What is their utility ?

6. Enumerate important renal function tests. Give the principle , procedure and clinical importance of any three of these tests performed in the laboratory.

PART - C

7. Write short notes on **any four** of the following . Each carries **five** marks. **5x4=20**
   (a) Enzymes and coenzymes
   (b) Source, absorption and transport of iron
   (c) Ketone bodies and their significance
   (d) Blood glucose and its regulation
   (e) Importance of copper and magnesium in human body
   (f) Uric acid metabolism