

00222

**B.Sc. IN MEDICAL LABORATORY TECHNOLOGY  
(BSCMLT)**

**Term-End Examination**

**December, 2011**

**BAHI-005 : CLINICAL BIOCHEMISTRY**

*Time : 3 hours*

*Maximum Marks : 70*

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**PART - A**

1. Complete the following : 2x10=20
- (a) An example of non-reducing sugar is \_\_\_\_\_.
  - (b) Adenosine triphosphate is \_\_\_\_\_ energy compound.
  - (c) Normal serum calcium is \_\_\_\_\_.
  - (d) CK - MB is specific for \_\_\_\_\_.
  - (e) Example of ketone bodies in blood is \_\_\_\_\_.
  - (f) Normal value of SGOT is \_\_\_\_\_.
  - (g) Gout there is increase of \_\_\_\_\_ in blood.
  - (h) The example of roughage \_\_\_\_\_.
  - (i) The example of genetic material \_\_\_\_\_.
  - (j) Normal value of Glycosylated Hb is \_\_\_\_\_.

## PART - B

Answer *any three* questions. Each carries 10 marks.

2. (a) Differentiate between Gluconeogenesis and Glycogenesis. 2, 2, 6  
(b) How is blood Glucose regulated in the body ?
  
3. Define lipids. How are fatty acids broken down ? Give brief outline of this breakdown pathway. 2, 2, 6
  
4. (a) What are Isoenzymes ? Give two examples.  
(b) Discuss the factors on which the enzyme activity depends. 2, 2, 6
  
5. What is Gout ? How is uric acid formed in the body ? 2, 8
  
6. What are minerals ? Give the importance of Copper, Magnesium and Fluorine in the body. 3, 7

**PART - C**

7. Write short notes on *any four* of the followings.

Each carries *five* marks.

**5x4=20**

- (a) Storage and transport of Iron.
  - (b) Clinical importance of calcium in the body.
  - (c) Sources of potassium in foods.
  - (d) Draw GTT for normal person.
  - (e) Difference between Nucleoside and Nucleotide.
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