

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

**Term-End Examination  
December, 2015**

**BAHI-005 : CLINICAL BIOCHEMISTRY**

*Time : 3 hours*

*Maximum Marks : 70*

*Note : Attempt all questions.*

1. Fill in the blanks : **1x10=10**
- (a) \_\_\_\_\_ is a reducing monosacchride.
  - (b) \_\_\_\_\_ is tumor marker for prostate cancer.
  - (c) Full form of HDL is \_\_\_\_\_.
  - (d) S.G.O.T. level is increased in \_\_\_\_\_.
  - (e) True glucose is estimated by \_\_\_\_\_ method.
  - (f) The end product of the breakdown of purine nucleic acid is \_\_\_\_\_.
  - (g) Direct bilirubin is elevated in \_\_\_\_\_ Jaundice.
  - (h) The lipids are transported in blood as \_\_\_\_\_.
  - (i) Fundamental units of proteins are \_\_\_\_\_.
  - (j) End product of aerobic glycolysis is \_\_\_\_\_.

2. (a) What are carbohydrates and how are they classified ? 4
- (b) Explain the procedure of GTT. 6
3. (a) Differentiate between DNA and RNA. 4
- (b) Describe the process of uric acid formation in the body. 6
4. (a) What are enzymes ? Name four enzymes. 4
- (b) Explain the factors influencing enzyme activity. 6
5. (a) Describe the metabolism of bilirubin in the body. 6
- (b) Write the characteristics of Direct and Indirect bilirubin. 4
6. (a) What is cholesterol ? 2
- (b) Enlist the functions of cholesterol. 5
- (c) Give sample value of serum cholesterol in the following conditions : 3
- (i) Myocardial infarction
- (ii) Hyperthyroidism
- (iii) Nephrotic syndrome

7. Write short notes on **any two** of the following.  
Each carries **5** marks. **5x2=10**
- (a) Goat
  - (b) GTT in diabetic patients
  - (c) Lipoproteins
  - (d) Glycolysis
  - (e) Importance of copper and magnesium in human body.
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