

**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 _____.

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| 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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