Time: 3 Hours

Maximum Marks: 70

P.T.O.

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BSCMLT)

Term-End Examination June, 2013

BAHI-005: CLINICAL BIOCHEMISTRY

| | | (Compulsory q | • | | |
|----|--|---|---|----------------------|--|
| 1. | Fill in the blanks. | | | 2x10=20 | |
| | (a) | Enzyme of | | aquire | |
| | (b) | called | | | |
| | (c) | | | | |
| | (d) When there is absolutely no supply of O the tissues it is called | | | of O ₂ to | |
| | (e) | inhibits glycolysis in vitro. | | | |
| | (f) | Break down of glycogen to glucose is called- | | | |
| | (g) | Decrease in blood glucose level below normal is called | | | |
| | (h) | (h) Glucose tolerance is the ability of the body (i) The types of glucose tolerance test are (i)(ii) | | | |
| | (i) | | | | |
| | (j) | is the or | | e ketone | |

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bodies are formed.

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PART-B

Answer any three questions. Each carries 10 marks. 1+1.5+6+1.5

- 2. (a) Define proteins.
 - (b) What are the different methods done in the laboratory for the estimation of Serum T. protien?
 - (c) Write the principle and procedure of the most common method for estimating Total protien in your laboratory.
 - (d) Give sample values of Total protein in the following conditions:
 - (i) Multiple myeloma.
 - (ii) Nephrotic syndrome.
 - (iii) Normal healthy person
- 3. (a) List any 4 functions of Kidney. 2+1+5+2
 - (b) List any 2 excretory function tests done using blood.
 - (c) Describe the method of any one and explain its significance.
 - (d) Write sample values in the following conditions.
 - (i) Uremia
 - (ii) Starvation

- 4. (a) What are the enzyme tests that are done to assess the liver function? 1.5+2+1.5+5
 - (b) What are the factors affecting enzyme activity?
 - (c) Give the normal ranges for the enzyme tests.
 - (d) Discuss in detail the procedure for any one of the commonly done enzyme test for liver function.
- 5. (a) Describe the metabolism of bilirubin in the 8+2 body.
 - (b) Write briefly on direct and indirect bilirubin.
- 6. (a) Define DNA and RNA. 2+2+6
 - (b) What are the differencess between DNA & RNA?
 - (c) How uric acid is formed in the body?

PART-C

- 7. Write short notes on any four of the following.
 - 5x4=20
 - (a) Semi auto analysis in Bio-chemistry.
 - (b) Abnormal electrophoresis.
 - (c) Preparation of Pooled Serium Control.
 - (d) Gonty arthsitis.
 - (e) Serum calcium.