

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

**Term-End Examination 00034  
December, 2012**

**BAHI-012 : ORGANIZATION LABORATORY  
MANAGEMENT AND APPLIED BIOCHEMISTRY**

*Time : 3 hours*

*Maximum Marks : 70*

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*Note: Part-A Contains 10 objective questions.*

*Part-B Contains 5 short answer questions.*

*Part-C Contains 6 short answer, answer any 4.*

*Part-D Contains 4 questions answer any 3.*

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**PART-A**

1. (a) Fill in the blanks : 1x10=10
- (i) Daily excretion of urea \_\_\_\_\_.
  - (ii) The major end product of Protein metabolism \_\_\_\_\_.
  - (iii) In transamination reaction amino group from amino acid is transferred to \_\_\_\_\_.
  - (iv) The Indicator used in titrimetric method for bicarbonate estimation is \_\_\_\_\_.
  - (v) All most all thyroid hormone in the blood stream is bound to \_\_\_\_\_.

- (b) Write True or False :
- (i) Blood urea is an index of kidney function.
  - (ii) The normal range of TSH value is  $8-10\mu$  10/ml
  - (iii) The value of PSA in the blood is elevated in prostratic cancer.
  - (iv) The normal pH of blood is 9.8
  - (v) The arterial blood saturation ( $SaO_2$ ) is equal to 95% or higher.

## PART-B

2. Write short answers on the following : 2x5=10
- (a) Chemical hazards occur in the lab.
  - (b) Types of Renal Calculi.
  - (c) Reception of specimen in the laboratory.
  - (d) Transamination.
  - (e) Disinfectants.

- (c) Write the importance of internal and external Quality Control.

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## PART-D

4. Answer *any three* questions.
- (a) What is automation ? 1+4+5
  - (b) Describe one type of discrete auto analyser
  - (c) Write the advantages and disadvantages of automation.
5. (a) Define Protein. 1+3+6
- (b) Describe the classification of Protein based on biological function.
  - (c) Name three plasma proteins. Write normal value of each and the clinical importance of the above proteins.
6. (a) Write the functions of clinical pathology laboratory. 2+5+3
- (b) Draw the flow chart of the laboratory management system.
  - (c) Give the important instructions to minimize infection to the laboratory staff.
7. (a) Describe Quality Control Management in relation to Biochemistry laboratories. 2+5+3
- (b) Define the following :
    - (i) accuracy
    - (ii) precision
    - (iii) standard deviation
    - (iv) standards
    - (v) controls

## PART - C

3. Write short notes on *any four* : 4x5=20
- (a) Hyper thyroidism
  - (b) Inborn errors of carbohydrate metabolism.
  - (c) Thin layer chromatography
  - (d) Acidosis
  - (e) Characteristics of Tumor makers
  - (f) SI units