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

**Term-End Examination**

**June, 2014**

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

*Time : 3 hours*

*Maximum Marks : 70*

- Note :** *Part-A contains ten objective questions.  
Part-B contains five short notes answer questions.  
Part-C Answer all the following questions.  
Part-D contains four questions. Answer any three.*
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**PART - A**

1. (a) Fill in the blanks : **1x10=10**
- (i) Lucine and valine are essential \_\_\_\_\_ .
  - (ii) Conjugated proteins on hydrolysis yields \_\_\_\_\_ .
  - (iii) Conversion of amino acids to ketoacid with production of ammonia is called as \_\_\_\_\_ .
  - (iv) 'M'- band in protein electrophoresis in Beta( $\beta$ )/Gamma( $\gamma$ ) region seen commonly in disease \_\_\_\_\_ .
  - (v) Most common and routine method for estimation of thyroid hormones is \_\_\_\_\_ .

- (b) Write True or False :
- (i) Common computer language such as PASCAL, FORTRAN, COBAL are essential in software technology for use in laboratory computer system.
  - (ii) RTPCR and PCR technology is commonly used in diagnostic laboratories for detection of hormones and parasitic infections.
  - (iii) In born errors of lipid metabolism, nucleic acid metabolism includes Nieman - pick, Tay - sacch's disease, Hereditary Xanthi-suria.
  - (iv) To obtain accurate reproducible results it is essential to follow standard procedures designed for specific test.
  - (v) Cretinism is increase growth with mental retardation in adults affecting due to increase levels of thyroxine.

#### PART - B

2. Write short answers on the following : 2x5=10
- (a) Myxoedema
  - (b) Criteria of selection of automation for diagnostic biochemistry.
  - (c) Differences between I.U. and S. I. U.
  - (d) flame photometry
  - (e) Metabolic acidosis

#### PART - C

3. Write short notes on the following : 4x5=20
- (a) Formation of uric acid
  - (b) Protein electrophoresis
  - (c) Lipotropic factors
  - (d) Problems of laboratory services and management

## PART - D

Answer any **three** questions.

**10x3=30**

4. What are laboratory procedures for waste disposals ? Describe various disinfectants and sterilisation procedures in hospital management.
  5. Enumerate essential amino acids. Describe the biomedical importance of various peptides and fractions of major plasma proteins.
  6. Enumerate thyroid functions. Describe thyroid functions and role of thyroid hormones in various thyroid diseases.
  7. What are various serum tumor markers ? Describe the role of tumor markers in diagnosis and prognosis of various malignancies giving illustrative examples.
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