

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

Term-End Examination

June, 2015

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

Time : 3 hours

Maximum Marks : 70

- Note :*
- (i) PART-A answer all 10 objectives.*
 - (ii) PART-B answer any two.*
 - (iii) PART-C answer any four.*
 - (iv) PART-D answer any three.*

PART - A

1. (a) Fill in the blanks : 1x5=5
- (i) Valine is an _____ amino acid.
 - (ii) Urea cycle is also called as _____ cycle.
 - (iii) Presence of Ca-oxalates and RBC in microsediments of urine is indicative of _____ disease.
 - (iv) Qualitatively in serum electrophoresis presence of additional band in either beta or gamma region is called as _____ band in cases of plasmacytoma.
 - (v) Thyroid deficiency is called as _____ often seen in cases of colloid goiter.

- (b) Write **True (T)** or **False (F)** of the following : **1x5=5**
- (i) For blood gas analysis venous blood is preferred for estimation.
 - (ii) PSA is a tumor marker for detection of breast cancer.
 - (iii) β -hydroxy butaric acid is one of the ketone bodies.
 - (iv) 1% Hypochlorite solution is commonly used in laboratories as disinfectant.
 - (v) Certified biomedical waste system is essentiality protocol in accreditation system of NABL.

PART - B

2. Write short notes on **any two** of the following : **5x2=10**
- (a) Types of laboratories and services.
 - (b) Laboratory hazards and safety.
 - (c) Laboratory waste management.

PART - C

3. Write briefly on **any four** of the following : **5x4=20**
- (a) Purines and pyrimidines.
 - (b) Fully automated analysers.
 - (c) Electrolyte analysers.
 - (d) Clinical importance of Thyroid function tests.
 - (e) Total Quality Management (TQM).

PART - D

Answer any three of the following : **10x3=30**

4. How do you classify proteins ? Describe the clinical importance of various peptides.
 5. Describe trends in automation and importance of use of high technology equipments in biochemical analysis.
 6. Define tumor markers. Describe the clinical importance of G.T.T. tumor markers in common use.
 7. What are inborn errors of metabolism ? Enumerate the causes. Write clinical importance.
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