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

## Term-End Examination

## December, 2016

00123

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

*Time : 3 hours*                    *Maximum Marks : 70*

**Note :** *Attempt all questions from parts A, B, C. Attempt any three questions from Part D.*

## PART A

1.  (a)  Fill in the blanks.                    5×1=5

    (i)  Urea cycle is also known as _____ .

    (ii)  _____ band proteins are seen in multiple myeloma/plasmacytoma in serum electrophoresis.

    (iii)  _____ signs over collection bags for disposal of laboratory wastes are essential.

(iv)  _____ percent hypochloride solution is used in laboratory as disinfectant as a procedure for disposal of waste.

(v)  Normal value of uric acid in serum is _____ mg%.

(b)  Write *True (T)* or *False (F)* for the following :  *5×1=5*

(i)  Inspissation is the moist heat sterilisation procedure considered most efficient below 60°C.

(ii)  CEA is a tumour marker for detection of GI tract tumours.

(iii)  Normal urinary creatinine is 1 – 2 gms/24 hrs.

(iv)  Raised alkaline phosphatase value indicates hepatic damage mostly seen in pre-hepatic jaundice.

(v)  Raised TSH value is an indicator of hypothyroid state.

# PART B

2. Write short notes on any *two* of the following : *2×5=10*

   (a) Common problems of laboratory services

   (b) Quality control measures in pre-analytical system of management

   (c) Biosafety measures in laboratory management

## PART C

**3.** Write briefly on any *four* of the following :     *4×5=20*

    (a)    Classification of Plasma Proteins

    (b)    Chromatography

    (c)    Dry Chemistry Analysers

    (d)    Transamination and Deamination

    (e)    Laboratory Waste Disposal

# PART D

*Answer any **three** of the following :*

4. (a) Define Acid-Base balance.

   (b) Describe the principles and methods of blood gas analysis.      *5+5=10*

5. Enumerate the parameters of check in quality control procedures in an automatic biochemistry analyser.      *10*

6. (a) Enumerate essential amino acids.

   (b) Classify various peptides and proteins.    *5+5=10*

7. (a) Explain the diagnostic and clinical importance of liver enzymes estimation.

   (b) Enumerate various conditions in which the levels of liver enzymes are high.      *5+5=10*

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