

**B.Sc. IN MEDICAL LABORATORY
TECHNOLOGY (BMLT)/DIPLOMA IN
MEDICAL LABORATORY TECHNOLOGY
(DMLT)**

Term-End Examination

December, 2014

**BAHI-013 : AUTOMATION OF LABORATORY
SERVICES**

Time : 3 hours

Maximum Marks : 70

Note : *Attempt all questions. Follow instructions under each questions.*

PART - A

1. Answer True (T) or False (F) : 5x1=5
- (a) Laboratory practice need control essential ethics to follow acute results of Laboratory.
 - (b) Parameters of quality assurance needs observations at length in total quality management.
 - (c) ISO systems is essential to accredit laboratory in Government / Non - Government organisations.
 - (d) Schedule (f) is not essential in procurement of license in blood bank.
 - (e) To calculate standard deviation average value in statistical expression of scatter is essential.

2. Fill in blanks : 5x1=5
- (a) _____ is the lowest variance a lab. can get on a known value QC material by a defined method.
 - (b) Standard deviation(s) are expressed as percent of the means which is measure of relative variability and is called as _____ variation.
 - (c) Quality control is a statistical system for measuring the _____ of degree of precision in laboratory procedures.
 - (d) _____ indicates how close to the true value a measurement is.
 - (e) To avoid laboratory hazards, _____ precautions in laboratory is essential.
3. Write briefly on **any five (5)** of the following : 5x6=30
- (a) Precision and accuracy of quality control.
 - (b) Optimum Conditions Variance (OCV).
 - (c) Quality Control Charts.
 - (d) External Quality Control Programme.
 - (e) Prospective phases of quality control.
 - (f) Standardisation measures in laboratory.

PART - B

Answer **any three (3)** of the following : 3x10=30

- 4. What is bio safety and laboratory hazards ? Indicate measures for safety.
- 5. Describe the role of automation in quality control management of the laboratories.

6. Describe data analysis management in quality assisted procedures in laboratory.
 7. Describe organisation and management of blood transfusion services in the large hospital.
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