

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

Term-End Examination

June, 2014

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

Time : 3 hours

Maximum Marks : 70

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

PART - A

Answer True (T) or False (F) :

1x5=5

1. (a) Systemic errors in a accurate analysis are better determined in Cusum technique than Levy-Jenning Charts.
- (b) Software technology in laboratory computer system will control laboratory tests accuracy.
- (c) Safe laboratory procedure in quality control is not mandatory as per S.O.P.
- (d) Alteration of results in internal quality control programme as per policy matters is permissible before issuing reports.
- (e) Laboratory workers on long term steroid therapy, other immuno suppressive and in pregnant stage should avoid working at places where there are increased chances of contracting infection.

2. Fill in the blanks. 1x5=5
- (a) _____ chart is almost universally followed in all the laboratories.
 - (b) In preparing the quality control chart a knowledge of _____ deviation is necessary.
 - (c) Bar coding/I.D. of a sample is essential step in _____ laboratory management.
 - (d) In quality assessment _____ of check plays vital role of TQM.
 - (e) Each batch of sample determinations should include standard _____ serum.
3. Write briefly on **any five** of the following : 6x5=30
- (a) Parameters of check in pre-analytical controls of laboratory.
 - (b) Standard Deviation.
 - (c) Ethical practices in laboratory system management.
 - (d) Gaussian curve.
 - (e) Computer assisted decision making data laboratories.
 - (f) Cusum chart.

PART - B

Answer **any three** questions. 10x3=30

- 4. What are laboratory hazards ? Indicate safety precautions to be taken to maintain biosafety in a laboratory.
- 5. Describe the advantages and disadvantages of automation in laboratory with reference to quality management.
- 6. Describe data analysis management in quality assisted procedures in laboratory.
- 7. Describe organisation and management of blood transfusion services with reference to drug licence and penalties imposed.