

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

**Term-End Examination**

**June, 2017**

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

*Time : 3 hours*

*Maximum Marks : 70*

*Note : Attempt any six questions. Question no. 9 is compulsory.*

1. Describe the types of computers used in diagnostic laboratories ? Write advantages of computer usage. 4+4=8
  
2. Define information technology in the field of Laboratory medicine. Explain how the use of 'Biotechnology' is built in usage of microprocessors. 4+4=8
  
3. Define the term 'user friendly'. Give examples of bringing the world of medicine to your fingertips. 2+6=8
  
4. Describe various components of personal computer. Explain various drives and output devices used in the laboratories. 4+4=8

5. Explain how will you collect, process, interpret, represent graphically and report the laboratory data using laboratory computer system.  $4+4=8$
6. Discuss how will you organise a quality control laboratory ? Describe the parameters of checking quality.  $4+4=8$
7. Describe variables in quality assurance. Discuss essential elements of quality assurance.  $5+3=8$
8. Define TQM. Describe the various components of TQM in laboratory services.  $3+5=8$
9. Write briefly on **any five** of the following :  $6 \times 5 = 30$
- (a) Levy - Jenning Chart and Gaussian Curve.
  - (b) Quality control programmes.
  - (c) Laboratory Safety.
  - (d) Quality controls of EIA (Enzyme Immuno Assays).
  - (e) Standard Operative Procedures (SOP).
  - (f) Advantages of use of Bar Codes in the laboratory.
  - (g) Standard Deviation (S.D.).
-