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

00221

Term-End Examination

December, 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 role of qualified technician in maintenance of quality assurance in the laboratory. Prepare the check list of quality assurance.   **4+4=8**

2. Describe advantages and disadvantages of automated quality analysers verses conventional methodology for laboratory investigations.   **4+4=8**

3. Describe the parameters for pre analytical procedures of quality management.   **4+4=8**

4. Discuss the parameters and conditions necessary in organisation of automation for qualified and accredited laboratory specialised in histotechnology and Haematology.   **4+4=8**

5. Define 'Random access' Analysers ? Give its examples and advantages. How does it differ from discrete selective analysers.   **2+2+4=8**

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6. Explain why computers in laboratory are necessary in quality management ? Discuss computer assisted medical decision making and expert system (CADM). 3+5=8

7. Discuss ethics in laboratory practice. Explain how it is correlated to quality management of laboratories ? 3+5=8

8. Describe the role of standard operative procedures (SOP) in NABL accreditation. What are necessary components in SOP ? 4+4=8

9. Write short notes on any five of the following : 5x6=30
    (a) Cusum Chart. 6
    (b) Quality control measures. 6
    (c) External and Internal quality control programmes. 6
    (d) OCV (Optimum Conditions Variance) and RCVK (Routine Conditions Variance Known Values). 6
    (e) Selection of automated analysers in diognostic haematology laboratories. 6
    (f) Parameters of check in Total Quality Management (TQM). 6
    (g) Information Technology. 6