2014
M.Sc.
1st Semester Examination

BIO-MEDICAL LABORATORY SCIENCE & MANAGEMENT

PAPER—BLM-103

Full Marks : 40
Time : 2 Hours

The figures in the right-hand margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.
Illustrate the answers wherever necessary.

Answer Q. No. 1 and any three questions from the following.

1. Answer any ten questions of the following : 10×1
   (a) Write the full form of HEPA.
   (b) What do you mean by BC type of fire extinguisher?
   (c) What is the unit of airflow in a biosafety cabinet?
   (d) What is ignition temperature?
   (e) Which risk groups are appropriate for EBOLA virus and HIV respectively?
   (f) What do you mean by anatomical waste?
   (g) Which type of bag you will use for microbiological waste?

(Turn Over)
(h) Write the full form of IEC.
(i) What is the full form of ISO?
(j) What do you mean by human values?
(k) Define accountability from the view point of laboratory ethics.
(l) What do you mean by preconditioning of the patient from the angle of laboratory ethics?
(m) Write any two characters of a laboratory technologist from the perspective of laboratory ethics.
(n) What do you mean by personnel management?
(o) Write the headquarter of ISO.

2. (a) What do you mean by secondary barrier?
   (b) Describe a routinewise suitable test for checking radioactive hazards.
   (c) Mention the criteria of risk-group-IV micro-organism.
   (d) What is baseline serum?  

2+4+2+2

3. (a) Which types of precautionary measurement you will take during handling of biosafety cabinet?
   (b) How do you perform First Aid for acid and alkali splash in Skin and eyes?
   (c) Classify different causes of fire.  

4+3+3

4. (a) What is shredder? Briefly state how it works in association with microwave.
   (b) Why uv sterilization is not suitable for sterilizing materials in a biomedical laboratory?
   (c) Write the maintenance of laboratory quality maintenance from the viewpoint of laboratory ethics.  

(1+3)+1+5

(Continued)
5. (a) Write the composition of IEC.
   (b) State in brief the role of IEC for the quality upgradation and management of health institute.
   (c) Describe the role of laboratory technologist for the privacy of data maintenance considering the values of laboratory ethics.

   2+5+3

6. (a) What do you mean by laboratory accreditation by ISO?
   (b) Write the importances of Laboratory accreditation from ISO.
   (c) State the impact of laboratory ethics on accountability and reliability in laboratory work.

   2+5+(1\frac{1}{2}+1\frac{1}{2})