

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

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 $\frac{1}{2}$)
