

2017

M.Sc.

1st Semester Examination

BIO-MEDICAL LABORATORY SCIENCE AND MANAGEMENT

PAPER—BLM-101

Subject Code—22

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 of the following.

1. Answer any ten questions of the following : 10×1
- (a) Write name any two health hazards caused by radiation.
- (b) Write the full form of three R's of Recycling?

(Turn Over)

- (c) Write name of two electrical safety devices.
- (d) Draw the symbol of flammable gas.
- (e) What do you mean by biohazards ?
- (f) What do you mean by ionizing radiation ?
- (g) Which extinguisher is used in case of fire from xylene ?
- (h) Why proper care is needed for handling of cryogenic substance ?
- (i) Write the full form of HEPA.
- (j) State the full form of HVAC system.
- (k) What is dunk tank ?
- (l) Classify Ebola virus on the basis of its virulance and communicability.
- (m) Why pipettor is used in the laboratory ?
- (n) Classify fire groups in very brief.
- (o) When you will use water mist extinguisher ?

2. (a) Why is laboratory safety important?
- (b) Write different types of chemical hazards in the laboratory.
- (c) What are the safety measures should be taken against laboratory chemical spillage? 3+3+4
3. (a) What are the personal protective equipment should be used by the laboratory workers?
- (b) What are the different sources of fire in the laboratory?
- (c) Discuss about different laboratory first-aid measures. 3+3+4
4. (a) What are the wastes?
- (b) Classify the wastes according to their effects on Human health and the environment.
- (c) Discuss the impacts of waste on health. 2+3+5
5. (a) Classify different types of biosafety cabinets.
- (b) What are the objectives of the usefulness of biosafety cabinet?

- (c) What types of precautionary measurements you will adapt to handle with biosafety cabinets? 2+3+5
6. (a) Differentiate primary containments and secondary containments.
- (b) What is baseline serum collection for workers — State with its significance.
- (c) What do you mean by restricted access to the laboratory?
- (d) What is suit Laboratory? 3+3+2+2
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