

2018

M.Sc. 1st Seme. Examination

BIOMEDICAL LABORATORY SCIENCE & MANAGEMENT

PAPER—BLM-101

Full Marks : 40

Time : 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

1. Answer any four questions : 4×2
- (a) What do you mean by PPE ?
 - (b) Draw the symbol of biohazard.
 - (c) How do you take care of your eyes after eye accident with alkali splash in the laboratory ?
 - (d) What do you mean by non-biodegradable waste ?

(Turn Over)

- (e) Write any two electrical safety measures in the laboratory.
- (f) Write the name of any four lab safety equipment.
- (g) Write the full forms of GLP and HEPA.
- (h) What are the causes of fire in the laboratory ?

2. Answer any *four* questions : 4×4

- (a) Name the different route of laboratory worker in the microbiology laboratory. What are the safe code of practice for a microbiology laboratory ? 1+3
- (b) Briefly describe the different causes of biohazards. How do you use centrifuge safely in laboratory to prevent mechanical hazards ? 2+2
- (c) What do you mean by chemical hazards in the laboratory ? Write the important safety regulations of handling chemicals in the laboratory. 1+3
- (d) Describe the different causes of bleeding in the laboratory and first-aid method to combat bleeding. 1+3

- (e) How do you handle a person suffering from asphyxia in the laboratory. 4
- (f) What are common sources of radiation in the laboratory? How do you take precaution against radioactive substance? 1+3
- (g) State the use of each items kept in the first aid box. 4
- (h) What should be the design and facilities for basic laboratory according to WHO — Discuss briefly. 4

3. Answer any *two* questions : 2×8

- (a) What does recycling symbol mean? How does recycling save energy? What do you mean by hazardous and non-hazardous waste? 3+2+3
- (b) Classify different groups of fire extinguishers and discuss the use of different fire extinguisher. What steps should be taken to remove object lodged in the ear? 6+2

- (c) What are the primary causes of accidents in the clinical laboratory and how can these be prevented? 4+4
- (d) Write the criteria of BSL-III Laboratory. What is the objective of using BSL cabinet? Write the working principle of any one BSC cabinet. 3+2+3
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