2016

M.Sc.

1st Semester Examination

BIO-MEDICAL LABORATORY SCIENCE & MANAGEMENT

PAPER—BLM-101

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 of the following.

1. Answer any *ten* of the followings : 10×1

(a) Write the full form of GLP.

(b) Which type of bag you will use for microbiological waste ?

(c) Draw the sign of biohazard.

(d) What is PPE ?

(e) What do you mean by biodegradable waste ?

(f) Which risk groups are appropriate for EBOLA virus and HIV respectively ?

(g) What do you mean by biohazard ?

(h) Write any two sources of common burn in the laboratory.

(i) Write any two electrical safety measures in the laboratory ?

(j) What is dunk tank ?

(k) What is meant by baseline serum ?

(*l*) What is primary containment ?

(m) What types of basic step you will take to stop fire from xylene ?

(n) Draw the basic safety sign of Biomedical hazards.

(o) What do you mean by exotic micro-organism ?

2. (a) What does the recycling symbol mean ?

(b) What are the three R' of recycling ?

(c) How can you use recycling technique at your home ?

(d) How does recycling save energy ?

3+3+2+2

3. (a) How can you protect yourself from radiation hazards in the laboratory ?

(b) What are the safe code practice in the laboratory ?

(c) What are the impacts of waste on health ?

3+3+4

4. (a) Classify risk group of microorganism with justification.

(b) What are the objectives of using BSCs ?

(c) Discuss about the working principle of any two of the safety cabinets.

3+2+5

5. (a) How do you perform biomedical waste management at primary level ?

(b) Describe about the guidelines of BSL-2 or BSL-3 Laboratory from the angle of biosafety ?

(c) Draw the basic schematic diagram of a BSL-4 Laboratory.

3+4+3

6. (a) Classify different group of fire extinguishers with justification and discuss the use of different fire extinguishers.

(b) How do you combat against a fire incidence takes place in a biomedical Laboratory ?

5+5

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