

2122

B. Voc. (Medical Lab Technology)

Third Semester

BMLT-302: Safe Laboratory Practices

Time allowed: 3 Hours

Max. Marks: 80

**NOTE:** Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-x-x

I. Describe briefly:-

- a) Homoestasis
- b) Define - hospital waste, biomedical waste and infectious waste
- c) Basic precautions to be taken to prevent electric shock from lab. instruments
- d) Importance of segregation of biomedical waste
- e) Personal protective equipment used in lab
- f) Good laboratory practices followed before testing
- g) Colour coding and different types of containers used for biomedical waste disposal
- h) Actions which should be taken for spillage and contamination involving biomedical waste. (8x2)

### UNIT - I

II. a) Describe the common types of accidents which can occur in the lab and their causes.

b) Describe the handling and storage of chemicals in lab. (8,8)

III. a) Describe general biosafety precautions taken in lab.

b) Describe the basic first aid practices to be taken in case of accidents in lab. (8,8)

### UNIT - II

IV. a) Describe the disposal of biological samples and chemical reagents in lab.

b) Describe briefly treatment of biomedical waste. (8,8)

V. a) Describe briefly different categories of biomedical waste.

b) How is biomedical waste transported? (8,8)

P.T.O.

**UNIT - III**

- VI. a) What are the hazards and risks associated with biomedical waste disposal?  
b) Describe the safe methods of storage of biomedical waste. (8,8)
- VII. a) What is the role of external agencies involved in transport and receipt of biomedical waste?  
b) Describe briefly guidelines regarding principles and procedures of biomedical waste management. (8,8)

**UNIT - IV**

- VIII. Write short notes on:-  
a) Good clinical laboratory practices of WHO  
b) Current best practices in laboratory (8,8)
- IX. a) Describe briefly laboratory safety guidance of OSHA (Occupational Safety and Health Administration)  
b) Principles of good clinical laboratory practices. (8,8)