



UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES

FIRST YEAR FIRST SEMESTER EXAMINATION IN BScHons (MLS)- 2021
MLSMT 1132 MEDICAL LABORATORY TECHNOLOGY 1

Date: 16.12.2022

Time: 2 hours

ANSWER ALL SIX QUESTIONS.

1.

1.1 Briefly explain the working principle of,

1.1.1 Centrifuge (25 Marks)

1.1.2 Autoclave (25 Marks)

1.2 Explain the safe usage and maintenance of the following equipment,

1.2.1 Waterbath (25 Marks)

1.2.2 Water distillation apparatus (25 Marks)

2. Write short notes on

2.1 Standard precautions followed in a clinical laboratory (50 Marks)

2.2 Types of biomedical wastes and their disposal methods (50 Marks)

3.

3.1 Name the contents of a chemical spill kit (20 Marks)

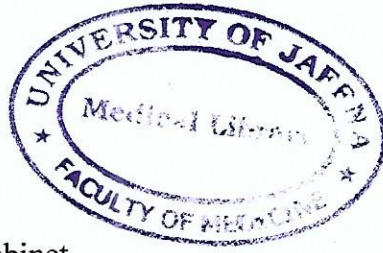
3.2 Describe how you would clean a major chemical spillage from a laboratory floor
(40 Marks)

3.3 Explain the prevention methods of laboratory fire hazards (40 Marks)

4. Write notes on

4.1 Triple packaging system (60 Marks)

4.2 Preventive measures followed to minimize occupational exposure of
blood borne pathogens. (40 Marks)



5.

- 5.1 State the principle of a biosafety cabinet (20 Marks)
- 5.2 Describe class III biosafety cabinet (40 Marks)
- 5.3 Give three (3) uses of class III biosafety cabinet (15 Marks)
- 5.4 Briefly describe how to operate a biosafety cabinet (25 Marks)

6.

- 6.1 Briefly describe the principle of a fluorescence microscope (20 Marks)
- 6.2 Name two (2) dyes used in fluorescence microscopy (10 Marks)
- 6.3 Name the parts of a light microscope and mention the function of each part. (40 Marks)
- 6.4 Explain the safety precautions that should be followed while using a light microscope (30 Marks)