

UNIVERSITY OF JAFFNA, SRI LANKA
FACULTY OF ALLIED HEALTH SCIENCES
THIRD YEAR FIRST SEMESTER EXAMINATION IN BScHons (MLS)-2020
MLSMT 3144 MEDICAL LABORATORY TECHNOLOGY II

Date: 29.04.2022

Time: 3 Hours

ANSWER ALL EIGHT QUESTIONS.

1.

- 1.1 Define the term "Infectious Material" (10 Marks)
- 1.2 Describe how you would transfer a suspected *Mycobacterium tuberculosis* culture from a clinical laboratory to a reference laboratory (60 Marks)
- 1.3 Briefly explain the responsibilities of the sender, carrier and receiver who participate in transportation of laboratory specimens (30 Marks)

2.

- 2.1 Name the blood borne pathogens (10 Marks)
- 2.2 Briefly describe the mode of transmission of the pathogens mentioned in 2.1 (20 Marks)
- 2.3 Explain the steps that should be followed after an occupational exposure of blood borne pathogens (40 Marks)
- 2.4 Describe the preventive measures which would be taken to minimize the Blood borne infections (30 Marks)

3. Write an account on

- 3.1 Material Safety Data Sheet (35 Marks)
- 3.2 Application of work practice control in the laboratory (35 Marks)
- 3.3 Sources of infection in a laboratory (30 Marks)

4.

- 4.1 Define the term "Disinfection" (10 Marks)
- 4.2 Briefly describe the disinfectants used in a Clinical Laboratory (40 Marks)
- 4.3 Define the term "Sterilization" (10 Marks)
- 4.4 Describe the sterilization procedures followed in clinical laboratories (40 Marks)

5. Write an account on

- 5.1 Biosafety level 2 facilities (40 Marks)
- 5.2 Biosafety level 4 facilities (60 Marks)

6.

- 6.1 List the items that should be included in a biological spill kit (20 Marks)
- 6.2 Describe the steps that could be taken to clean a biohazard spill outside a
Biological Safety Cabinet (40 Marks)
- 6.3 Write notes on good laboratory practice (40 Marks)

7.

- 7.1 Describe different types of fire extinguishers (20 Marks)
- 7.2 Describe the preventive measures which could be taken to prevent
fire accidents in Clinical Laboratories (40 Marks)
- 7.3 Describe the different types of biomedical wastes and their disposal methods (40 Marks)

8. Write notes on

- 8.1 Importance of immunization for health care workers (30 Marks)
- 8.2 Triple packaging system (30 Marks)
- 8.3 Equipment related hazards in a Clinical Laboratory (40 Marks)