



**UNIVERSITY OF JAFFNA, SRI LANKA**  
**BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES**  
**THIRD YEAR FIRST SEMESTER EXAMINATION- AUGUST 2017**  
**MLSMT 3144 MEDICAL LABORATORY TECHNOLOGY 2**

**Date: 21.08.2017**

**Time: 3 Hours**

**ANSWER ALL EIGHT QUESTIONS.**

**1.**

- 1.1 Define the term "sterilization". (10 Marks)
- 1.2 Describe the methods of sterilization that can be used in a clinical laboratory. (50 Marks)
- 1.3 Describe briefly the applications of the methods you mentioned in 1.2 in a clinical laboratory. (40 Marks)

**2.**

- 2.1 Define "standard precautions" which should be followed in health care settings. (10 Marks)
- 2.2 Describe the standard precautions that should be followed in a clinical laboratory. (90 Marks)

**3.**

- 3.1 Differentiate Biosafety level 1 and Biosafety level 2 laboratory containment facilities. (60 Marks)
- 3.2 Discuss the safety guidelines for handling Biosafety level 3 agents. (40 Marks)

**4. Write an account on**

- 4.1 Bloodborne pathogens. (50 Marks)
- 4.2 Prevention of fire hazards in a clinical laboratory (50 Marks)

5. Write notes on
- 5.1 Triple packaging system. (50 Marks)
  - 5.2 Chemical hazards. (50 Marks)
- 6.
- 6.1 Name five equipments which could cause hazards in a clinical laboratory and list the hazards you would expect from each. (50 Marks)
  - 6.2 Discuss briefly how to minimize the hazards mentioned in 6.1. (50 Marks)
- 7.
- 7.1 Name five biohazardous wastes produced in clinical laboratories. (20 Marks)
  - 7.2 Describe briefly how to collect and dispose biohazardous wastes in a clinical laboratory. (50 Marks)
  - 7.3 Write notes on biohazardous spill kit. (30 Marks)
- 8.
- 8.1 List five sharps items which cause hazards in clinical laboratories. (30 Marks)
  - 8.2 Write notes on sharp disposal container in a clinical laboratory. (30 Marks)
  - 8.3 List five protective measures which should be taken during sharps disposal. (40 Marks)

XXXXXXXXXXXXXXXXXXXXX