

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES
THIRD YEAR FIRST SEMESTER EXAMINATION- SEPTEMBER 2018

MLSMT 3144 MEDICAL LABORATORY TECHNOLOGY II

Date: 17.09.2018

Time: 3 Hours

ANSWER ALL EIGHT QUESTIONS.

1.

- 1.1 List the blood borne viral pathogens. (15 Marks)
- 1.2 List the laboratory techniques by which the above infections can be acquired. (25 Marks)
- 1.3 Describe the laboratory tests used to identify the above infections. (30 Marks)
- 1.4 Describe briefly the measures that should be taken after an occupational exposure of blood borne pathogen. (30 Marks)

2. Write notes on

- 2.1 Safe use of biosafety cabinet. (30 Marks)
- 2.2 Storage of chemicals. (40 Marks)
- 2.3 Maintenance of glassware in a clinical laboratory. (30 Marks)

3.

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

4. Write an account on

- 4.1 Standard precautions which should be followed in clinical laboratories. (70 Marks)
- 4.2 Sharp disposal in clinical laboratories. (30 Marks)

- 5.
- 5.1 List the sources of fire in a clinical laboratory (30 Marks)
 - 5.2 Briefly discuss the causes of fire in a clinical laboratory (30 Marks)
 - 5.3 Briefly describe on the control measures which could be taken to prevent fire hazards in a clinical laboratory. (40 Marks)
- 6.
- 6.1 List the items that should be in a biological spill kit. (30 Marks)
 - 6.2 Describe the steps to be taken to clean a blood spill on the floor of a clinical laboratory. (30 Marks)
 - 6.3 Briefly describe on cleaning a mercury spill in a laboratory. (40 Marks)
- 7.
- 7.1 Describe how you would transfer blood samples from a clinical laboratory to a reference laboratory. (60 Marks)
 - 7.2 Discuss briefly on the responsibilities of the persons involved in sample transportation. (40 Marks)
- 8.
- 8.1 List five equipment which could cause hazards in a clinical laboratory. (10 Marks)
 - 8.2 Briefly explain the hazards you expect while using the equipment mentioned in 8.1. (25 Marks)
 - 8.3 Describe how to reduce the hazards caused by the equipment mentioned in 8.1. (30 Marks)
 - 8.4 Write notes on safety equipment. (35 Marks)

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