

UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES
THIRD YEAR FIRST SEMESTER EXAMINATION-JULY 2013

MLSMT 3104 MEDICAL LABORATORY TECHNOLOGY 2

Date: 05.08.2013

Time: 3 Hours

ANSWER ALL EIGHT QUESTIONS

1.

- 1.1. List 3 blood borne viral pathogens (10 marks)**
- 1.2. List different ways of transmission of the pathogens you mentioned in 1.1 in the laboratory (20 marks)**
- 1.3. Briefly describe the risk of the above viral infections after an occupational exposure (30 marks)**
- 1.4. Explain the measures that can be taken after an occupational exposure of the above pathogens (40 marks)**

2.

- 2.1. List the biohazardous waste materials in a diagnostic laboratory (20 marks)**
- 2.2. Describe how you would reduce biological hazards in a laboratory (20 marks)**
- 2.3. How would you collect and dispose the solid biohazardous wastes in the laboratory (60 marks)**

3.

- 3.1. How do you respond in a situation where a petri dish with bacterial culture is broken in a biological safety cabinet (50 marks)**
- 3.2. Mention the items in a biological spill kit (30 marks)**
- 3.3. Write the precautions during the waste disposal in a laboratory (20 marks)**

4.

- 4.1. Differentiate Laboratory design and facilities of the containment level 2 and level 3 (60 marks)**
- 4.2. Describe the safety guidelines for handling of risk group 3 pathogens (40 marks)**

5. Write notes on
- 5.1. Storage of chemicals in a laboratory (50 marks)
 - 5.2. Immunization for laboratory workers (50 marks)
- 6.
- 6.1. Define infectious material (10 marks)
 - 6.2. Explain how you would prepare a laboratory specimen for transportation (60 marks)
 - 6.3. Briefly explain the responsibilities of the sender, carrier and receiver who participate in transportation of laboratory specimen (30 marks)
- 7.
- 7.1. List 5 common causes for fire in a laboratory (20 marks)
 - 7.2. Explain the different types of fire extinguishers (40 marks)
 - 7.3. What are the safety rules for the domestic and cleaning staff of a clinical laboratory (40 marks)
- 8.
- 8.1. List 5 instances of aerosol-producing activities in the laboratory and explain each of them (50 marks)
 - 8.2. List the routes of exposure of chemical in the laboratory and give 2 examples for each (30 marks)
 - 8.3. Write notes on the importance of Hand washing in the laboratory (20 marks)