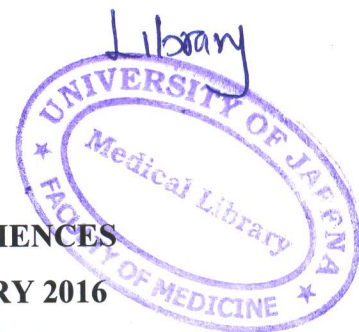


UNIVERSITY OF JAFFNA, SRI LANKA
BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES
THIRD YEAR FIRST SEMESTER EXAMINATION- JANUARY 2016
MLSMT 3104 MEDICAL LABORATORY TECHNOLOGY 2



Date: 01.02.2016

Time: 3 Hours

ANSWER ALL EIGHT QUESTIONS.

1. A urine specimen received from a Hepatitis B surface antigen positive patient was spilled on the work bench.
 - 1.1 List the items included in a biohazardous spill kit. (20 Marks)
 - 1.2 Describe the steps taken to clean the bench after the above mentioned spillage including waste disposal. (35 Marks)
 - 1.3 Write notes on 'high risk biohazard specimen'. (45 Marks)

2.
 - 2.1 Describe briefly different equipment related hazards that could happen in a clinical laboratory. (50 Marks)
 - 2.2 Describe how you would eliminate the hazards mentioned in 2.1. (50 Marks)

3. Write notes on
 - 3.1 Storage of chemicals. (50 Marks)
 - 3.2 Hazardous chemical waste management in a clinical laboratory. (50 Marks)

4.
 - 4.1 Define the term 'blood borne pathogens' and give three examples. (20 Marks)
 - 4.2 Describe the factors influencing the risk of infection by the pathogens you mentioned in 4.1. (35 Marks)
 - 4.3 Write notes on sharp disposal in a clinical laboratory. (45 Marks)

5. Write notes on
- 5.1 Triple packaging system. (50 Marks)
 - 5.2 Personnel protective equipment (PPE). (50 Marks)
- 6.
- 6.1 Describe briefly the differences between Biosafety level 2 and Biosafety level 3 agents. (20 Marks)
 - 6.2 Describe the requirements for Biosafety level 3 containment. (50 Marks)
 - 6.3 Describe how to handle a biosafety cabinet safely. (30 Marks)
- 7.
- 7.1 Describe briefly the causes of electrical hazards in a clinical laboratory. (30 Marks)
 - 7.2 List ten sources of fire in a clinical laboratory. (20 Marks)
 - 7.3 Name the classes of fire fighting equipment and write the applications of each. (25 Marks)
 - 7.4 Write notes on prevention of fire in a clinical laboratory. (25 Marks)
- 8.
- 8.1 Describe briefly different routes of transmission of pathogens in a clinical Microbiology laboratory with examples. (30 Marks)
 - 8.2 Describe briefly different sources of infection in a clinical laboratory. (30 Marks)
 - 8.3 Write notes on standard precautions that should be followed in a clinical laboratory. (40 Marks)