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Sample

**The Open University of Sri Lanka**

**Faculty of Health Sciences**

**Bachelor of Medical Laboratory Sciences (B.MLS)**

**MLU1246 – Principles of Laboratory Management**

**Semester 02- Academic year 2015/2016**

**Final Examination**

***Return your question papers with the answer sheets***

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|---|---|
| **Date: 26. 07. 2016** | **Duration: 3 hours** |
| **Time: 09.30 a.m. - 12.30 p.m.** | **Index No:.....** |

**Please read the following instructions carefully before you answer the paper.**

**Answer all the questions.**

**Part A: Multiple Choice Questions (20 marks)**

There are twenty multiple choice questions in this paper, each question with four responses. Select the **best response** and put 'X' mark for the correct answer in the given answer sheet.

**Part B: Structured Essay Questions (50 marks)**

You are given five questions. Each question contains three parts. Answer all the questions in given answer sheets.

**Part C: Essay Questions (30 marks)**

There are two essay questions. Answer the questions in given answer sheets.

***Good Luck !***

**Part B: Structured Essay Questions (50 marks)**

1.

1.1. What is meant by a Standard Operating Procedure (SOP)? (2 marks)

1.2. Briefly explain the benefits of a SOP. (4 marks)

1.3. Discuss the basics that needs to be taken in to consideration when developing a SOP. (4 marks)

2.

2.1. Briefly explain the management process. (3 marks)

2.2. Discuss the system of supplies in state sector laboratories and private sector laboratories. (3 marks)

2.3. Name the different types of glass pipettes used in the laboratory and write a short description for each of them. (4 marks)

3.

3.1. Briefly discuss how you handle mice in a laboratory. (3 marks)

3.2. Discuss the classification of laboratory animals according to their genetic status. (4 marks)

3.3. Briefly explain the 'three R' concept in designing animal experiments. (3 marks)

4.

4.1. Describe the term ''precision''. (2 marks)

4.2. Briefly explain the process of preparing Levey-Jennings charts for plotting QC results. (4 marks)

4.3. Explain the benefits of participating in an external quality assessment program for a laboratory. (4 marks)

5.

5.1. Discuss how you categorize chemicals in a laboratory according to hazards that they cause. (3 marks)

5.2. Briefly describe the precautions that need to be taken when sorting chemicals of each of these categories. (4 marks)

5.3. Briefly explain how you give first aid to a parson who got a chemical burn. (3 marks)

**Part C: Essay Questions (30 marks)**

1. Hazards that can be encountered in a laboratory are many and varied. They can be grouped in to several categories. Explain the categories of laboratory hazards and their causes, giving examples. (15 marks)

2. Write short notes on followings.

   i. Skills to be possessed by a Manager (5 marks)
   ii. Cleaning of volumetric glassware (5 marks)
   iii. Risk groups of microorganisms (5 marks)