



Library

**FACULTY OF ALLIED HEALTH SCIENCES, UNIVERSITY OF RUHUNA**  
**Department of Medical Laboratory Science**  
**Year End Examination, Year 3 – 2015/2016 (9<sup>th</sup>) Batch**  
**MLS 3103 Laboratory Management – SEQ**

Date: 07<sup>th</sup> April 2021

Time: 10.00 a.m. – 12.00 noon

Duration: 2 hours

Answer all questions

Index Number: .....

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**Instructions: Provide answers for each question in separate booklets.**

1. Laboratory 'A' is a large-scale laboratory with specialized test in all four disciplines. The management wants to reduce the cost for a test.
  - 1.1 Discuss the six principal categories of costs. (40 marks)
  - 1.2 Discuss what practices you would implement to minimize cost generated in a laboratory. (60 marks)
  
2. You are appointed as the quality manager in a private sector laboratory.
  - 2.1 Discuss how you would encourage medical laboratory scientists to practice ethical behavior during total testing process. (30 marks)
  - 2.2 Discuss how you would implement a system to manage critical results in the laboratory? (40 marks)
  - 2.3 Discuss how you would handle complaints against your laboratory. (30 marks)
  
3.
  - 3.1 Define sample collection center. (10 marks)
  - 3.2 Briefly describe **five** functions of collecting centers. (25 marks)
  - 3.3 Explain the major components need to be included in a specimen collection manual. (40 marks)
  - 3.4 State **five** commonest errors with 'keeping records' in a medical laboratory. (25 marks)
  
4. Assume you are the laboratory Manager of 'Laboratory B'. In-charge of the biochemistry section has forwarded a proposal to implement serum cortisol test in laboratory B.
  - 4.1 Briefly describe the major factors you would consider before making the decision to implement the test. (50 marks)
  - 4.2 Briefly describe the major steps you would follow during the implementation of the new test. (50 marks)



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**MLS 3103 - Laboratory Management – Practical I**

Date: 08<sup>th</sup> April 2021

Time: 9.00 a.m. – 10.00 a.m.

Duration: 1 Hour

Answer all questions

**Index Number:** .....

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Answer following questions based on your vacation training.

- 1.**
  - 1.1** State the errors you have noticed on management of waste in the laboratory. (30 marks)
  - 1.2** Discuss the measures that can be taken to correct/overcome these problems. (40 marks)
  - 1.3** Critically discuss the measures that have been taken by the above laboratory to maintain confidentiality of the laboratory reports/information. (30 marks)
  
- 2.**
  - 2.1** Discuss the errors you have noticed in sample collection. (30 marks)
  - 2.2** Write an action plan to rectify the problems mentioned in 2.1. (30 marks)
  - 2.3** Critically evaluate the Internal Quality Control programme of the above laboratory. (40 marks)



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**MLS 3103 - Laboratory Management – Practical II**

Date: 08<sup>th</sup> April 2021

Time: 10.30 a.m. onwards

Duration: 1 Hour and 30 Minutes

Answer all questions

**Index Number:** .....

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This is an open book examination.

- 1.** You have been appointed as the quality manager of the laboratory "X". You are planning to implement a safety management programme within the laboratory.
  - 1.1** State the key information you would find in material safety data sheets (MSDS) which are important/relevant for safety. (20 marks)
  - 1.2** Briefly describe the procedures you would follow during storage and handling of chemicals. (30 marks)
  - 1.3** Briefly outline your plan for ensuring the safety of laboratory personnel during the period of Covid-19 pandemic. (50 marks)
  
- 2.** Perform a safety audit at the MLS laboratory, Uluwitike.
  - 2.1** Prepare a checklist to perform your safety audit based on the requirements for a safe laboratory. (100 marks)