

THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCES
ACADEMIC YEAR 2023/2024 – SEMESTER II



BACHELOR OF MEDICAL LABORATORY SCIENCES (BMLS) HONOURS
MDU5304 – LABORATORY MANAGEMENT
FINAL EXAMINATION

Part B: Structured Essay Questions (40 Marks)

Q1.

1.1 What is Evidence-Based Laboratory Administration? (01 Mark)

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1.2 List **three (03)** standard methods used in evidence-based laboratory administration. (03 Marks)

- i.
- ii.
- iii.

1.3 State **four (04)** objectives of the Environmental Protection License? (02 Marks)

- i.
- ii.
- iii.
- iv.

1.4 Briefly explain **five (05)** basic principles of medical ethics. (04 Marks)

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(Total 10 Marks)

Q2.

2.1 List **three (03)** factors that influence laboratory planning? (03 Marks)

- i.
- ii.
- iii.

2.2 List **four (04)** main services provided by a medical laboratory. (02 Marks)

- i.
- ii.
- iii.
- iv.

2.3 List **four (04)** basic components of the primary sample collection department. (02 Marks)

- i.
- ii.
- iii.
- iv.

2.4 Briefly describe the factors that need to be considered when planning a primary sample processing department.

(03 Marks)

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(Total 10 Marks)

Q3.

3.1 What is the laboratory management information system (LMIS)? (01 Mark)

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3.2 Write down **five (05)** benefits of having LMIS in the human potential management system. (04 Marks)

- i.
- ii.
- iii.
- iv.
- v.

3.3 What is 'health care marketing'? (01 Mark)

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3.4 Briefly explain four components directly related to the product in the marketing mix.

(04 Marks)

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(Total 10 Marks)

Q4.

4.1 List four (04) qualities of a good laboratory equipment. (02 Marks)

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4.2 List **four (04)** advantages of an equipment maintenance programme. (02 Marks)

- i.
- ii.
- iii.
- iv.

4.3 Mention **four (04)** key benefits of ensuring high-quality laboratory services. (02 Marks)

- i.
- ii.
- iii.
- iv.

4.4. Briefly explain **four (04)** main types of **external quality assurance** in a medical laboratory.

(04 Marks)

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(Total 10 Marks)

Part C: Essay Question. (30 Marks)

Answer the question in the booklet provided.

Q1. Describe the key features that has to be considered when designing a Bio Safety Level 3 (Contaminant) laboratory.

(15 Marks)

Q2. Describe the components of a health and safety management system.

(15 Marks)

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