UNIVERSITY OF JAFFNA, SRI LANKA FACULTY OF ALLIED HEALTH SCIENCES

SECOND YEAR SECOND SEMESTER EXAMINATION IN BScHons (MLS) – 2023 MLSLQ 2243 LABORATORY MANAGEMENT AND QUALITY ASSURANCE

Date: 03.06.2025 Time: 2 Hours

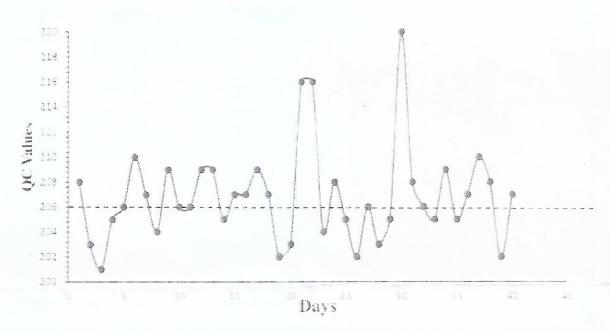
Answer all Six Questions.

Answer Part A and B in Separate Answer Books.

PART A

 The Levey-Jennings chart below displays the internal Quality Control (IQC) data for Triglycerides from a clinical laboratory in March 2025. The estimated mean and standard deviation are 206.88 and 3.85, respectively.

LJ chart for Triglyceride (Level 2) QC



1.1. Outline the following Quality Control (QC) rules

1.1.1. Control rule 1_{3s} (10 Marks)

1.1.2. Control rule 2_{2s} (10 Marks)

1.1.3. Control rule R_{4s} (10 Marks)

| 1.2 | . Briefly explain the key steps involved in planning a Statistical Qua | lity Control |
|---|---|----------------|
| | (SQC) procedure. | |
| 1.3 | | (30 Marks) |
| | laboratory data above, specifying the days on which each error occi | s found in the |
| | s and any specifying the days on which each error occi | |
| 2. W | rite notes on | (40 Marks) |
| 2.1. The application of the following statistical analyses in a clinical laboratory setting | | |
| | 2.1.1. Youden plot. | |
| | 2.1.2. Receiver operating characteristic (ROC) curve. | (25 Marks) |
| 2.2. | | (25 Marks) |
| | t a chinical laboratory | (50 Marks) |
| | | |
| 3. | | |
| 3.1. Name three International accreditation bodies that provide clinical laboration | | |
| | accreditation | (10 Marks) |
| 3.2. | Briefly describe the International accreditation bodies you mentione | |
| | odate you montone | (30 Marks) |
| 3.3. | List five characteristics of an accreditation body | (15 Marks) |
| 3.4. | Briefly describe about Sri Lanka Accreditation Board (SLAB) | |
| 3.5. | Write on the benefits of accreditation | (20 Marks) |
| | · | (25 Marks) |
| | | |
| | PART B | |
| | | |
| 4. | | |
| 4.1 | What do you mean by the term 'management'? | (20 Marks) |
| 4.2 | List any five characteristics of management. | (20 Marks) |
| 4.3 | "Management is both a science and an art." Explain this statement with suitable | |
| | arguments. | (30 Marks) |
| 4.4 | Analyze the challenges managers face in today's dynamic business e | , |
| | 2 Samuel | |
| | | (30 Marks) |

| Define the term 'Information System (IS)'. | (20 Marks) |
|---|---|
| Outline the major areas of IS knowledge required by business profession | onals. |
| | (20 Marks) |
| Discuss the managerial challenges posed by Information Technology in | |
| modern organizations. | (30 Marks) |
| Critically evaluate the strategic importance of the IS function in achieving | |
| competitive advantage for a business. | (30 Marks) |
| | |
| | |
| | |
| What do you mean by the term 'records management'? | (20 Marks) |
| State the steps involved in planning a filing system for a new department | nt. |
| | (20 Marks) |
| "A good filing system is more about accessibility than safety." Argue fo | r |
| or against this perspective. | (30 Marks) |
| Critically assess the challenges of decentralized filing in a hospital setting. | |
| | (30 Marks) |
| | Outline the major areas of IS knowledge required by business profession. Discuss the managerial challenges posed by Information Technology in modern organizations. Critically evaluate the strategic importance of the IS function in achieve competitive advantage for a business. What do you mean by the term 'records management'? State the steps involved in planning a filing system for a new department. "A good filing system is more about accessibility than safety." Argue for or against this perspective. |