



“Investing in Africa’s Future”

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

DEPARTMENT OF BIOMEDICAL AND LABORATORY SCIENCES

BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS DEGREE

NSLS100: LABORATORY PRINCIPLES

END OF FIRST SEMESTER FINAL EXAMINATIONS

NOV 2021

LECTURER: MR G. MALUNGA

DATE: 23 NOVEMBER 2021

TIME: 0900 HRS

DURATION: 5 HOURS

INSTRUCTIONS

1. Write your candidate number on your answer sheets.
2. Answer any **ONE** question of your choice.
3. Each full question carries 100 marks
4. Submit your answer script as a PDF document through Moodle ONLY.
5. Use the following specifications in your answer scripts:
Font: Times New Roman
Font size: 12
Line spacing: 2.0
6. Credit will be given for logical, systematic and neat presentations.

Answer any ONE question

Question 1

You have just been appointed as the Quality Officer of Biorad Clinical Laboratory and one of the laboratory's target is to be ISO certified by 2023. Can you give a detailed analysis of how you will achieve this target? **[100 marks]**

Question 2

As a Laboratory Manager of a large clinical laboratory with branches nationwide, describe how you would manage all the laboratory equipment of the organization. Illustrate your answer with named examples. **[100 marks]**

Question 3

Discuss in detail the collection and handling of the following clinical specimens.

- a) Cerebrospinal Fluid **[30 marks]**
- b) Nasopharyngeal swab **[30 marks]**
- c) Blood gas analysis sample **[40 marks]**

The End