



*"Investing in Africa's Future"*

**COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES  
DEPARTMENT OF HEALTH SCIENCES**

**BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS DEGREE**

**NSLS102: CLINICAL CHEMISTRY I**

**END OF FIRST SEMESTER SUPPLEMENTARY EXAMINATIONS**

**JAN 2021**

**LECTURER: MR G. MALUNGA**

**DURATION: 24 HOURS**

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***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 scripts as PDF documents 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.
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**Answer any ONE question**

**Question 1**

Give a detailed account of the clinical significance of the laboratory measurement of the following plasma enzymes.

- a) Lactate dehydrogenase. [50 marks]
- b) Creatine kinase. [50 marks]

**Question 2**

Explain in detail the principles of the following analytical methods used in a clinical chemistry laboratory

- a) Nephelometry. [50 marks]
- b) Atomic absorption spectrophotometry. [50 marks]

**Question 3**

Describe in detail the biochemical processes involved in lipid metabolism. [100 marks]

**The End**