



*"Investing in Africa's Future"*

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

**DEPARTMENT OF BIOMEDICAL AND MEDICAL LABORATORY SCIENCES**

**BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS**

**NSLS208: IMMUNOLOGY THEORY**

**END OF SEMESTER EXAMINATIONS**

**7 MAY 2021**

**LECTURER: MR M. MUTENHERWA**

**DURATION: 3 HOURS**

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***INSTRUCTIONS***

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

**Question 1**

Describe the production of monoclonal and polyclonal antibodies. [100 marks]

**Question 2**

Illustrate the classical pathway of complement system from activation to the destruction of a pathogen. Include diagrams to illustrate your answer.

[100 marks]

**Question 3**

Demonstrate how antigens are processed and presented to cells of the immune system. [100 marks]

**THE END**