

GWANDA STATE UNIVERGWANDA STATE UNIVERSITY



FACULTY OF NATURAL RESOURCES MANAGEMENT AND AGRICULTURE

DEPARTMENT OF ANIMAL PRODUCTION AND HEALTH

**BACHELOR OF SCIENCE HONOURS DEGREE IN ANIMAL PRODUCTION AND
HEALTH**

VETERINARY IMMUNOLOGY

NAP2205

FIRST SEMESTER FINAL EXAMINATION PAPER

JUNE 2025 FINAL EXAM

This examination paper consists of 2 pages

Time Allowed: 3 hours
Total Marks: 100
Special Requirements: None
Examiner's Name: Dr L. Maposa

INSTRUCTIONS

1. Answer **all** questions in Section A
2. Answer **two** questions in Section B

MARK ALLOCATION

QUESTION	MARKS
SECTION A	60
SECTION B	40
TOTAL ATTAINABLE MARKS	100

Copyright: Gwanda State University

SECTION A: ANSWER ALL QUESTIONS (60 MARKS)

QUESTION 1

Write notes on the following immunological terms:

- a) Antibodies. **[8 marks]**
- b) Antigens. **[7 marks]**
- c) Receptors. **[5 marks]**

QUESTION 2

- a) What do you understand by host-pathogen interactions? **[4 marks]**
- b) Outline the key components of host-pathogen interactions. **[10 marks]**
- c) What are the possible outcomes of host-pathogen interactions? **[6 marks]**

QUESTION 3

Explain the significance of maternal immunity in newborn animals, including the transfer of antibodies and the implications for early life disease prevention. **[20 marks]**

SECTION B: ANSWER ANY 2 QUESTIONS (40 MARKS)

QUESTION 4

Describe the principles and applications of vaccination in veterinary medicine, including the different types of vaccines and their modes of action. **[20 marks]**

QUESTION 5

- a) Discuss the mechanisms by which pathogens evade host immunity. **[10 marks]**
- b) What is the environmental and climate change impacts on immunity and disease patterns of domestic animals? **[10 marks]**

QUESTION 6

Outline the process of inflammation, including the key cellular and molecular events that occur and its role in the immune response. **[20 marks]**

END OF EXAMINATION