

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 DIAGNOSTICS AND PHARMACOLOGY

NAP2204

FIRST SEMESTER FINAL EXAMINATION PAPER

JUNE 2025 MAIN 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

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SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION 1

- a) What is your understanding of the term Pharmacology? **[4 marks]**
- b) Describe the following principles as they relate to veterinary drugs, including factors that influence the rate of each process:
 - i) Absorption. **[4 marks]**
 - ii) Distribution. **[4 marks]**
 - iii) Metabolism. **[4 marks]**
 - iv) Excretion. **[4 marks]**

QUESTION 2

- a) Discuss the steps involved in performing a complete urinalysis. **[11 marks]**
- b) What do the following findings mean, and what is their clinical significance?
 - i) Hematuria. **[3 marks]**
 - ii) Glucosuria. **[3 marks]**
 - iii) Proteinuria. **[3 marks]**

QUESTION 3

- a) What type of information ought to be sought from the livestock owner, which can guide in determining the cause of a disease? Explain how the information can help you in suspecting a particular disease. **[10 marks]**
- b) Explain the procedure for conducting a postmortem examination for a cow. **[10 marks]**

SECTION B: ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION 4

- a) What is your understanding of a veterinary diagnostic workflow? **[4 marks]**
- b) Describe the steps of a veterinary diagnostic workflow in a sick animal. **[16 marks]**

QUESTION 5

- a) Describe the faecal flotation test and how it is used as diagnostic technique to identify parasites in veterinary practice. **[11 marks]**
- b) List the common parasites that can be diagnosed using the faecal flotation test. **[3 marks]**
- c) What are the advantages and limitations of using this technique? **[9 marks]**

QUESTION 6

Discuss the principles of antimicrobial stewardship and strategies for minimising the development of antimicrobial resistance in veterinary practice. **[20 marks]**

END OF EXAMINATION