

GWANDA 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**

ANIMAL HEALTH AND WELFARE

NAP2101

FIRST SEMESTER FINAL EXAMINATION PAPER

NOVEMBER 2024 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

- 1) Good health of an animal is important for it to reach its production potential.
- 1a) State the general signs of an unhealthy animal? **[6 marks]**
- 1b) Discuss the clinical signs, postmortem findings and methods of control for Heartwater. **[14 marks]**
- 2a) Describe the lifecycle, clinical signs and control of liver flukes. **[9 marks]**
- 2b) Describe the use of the FAMACHA System in the strategic control of *Haemonchus contortus*. What are the benefits of using this system? **[11 marks]**
- 3a) Discuss the major clinical and post mortem signs of Infectious Bursal Disease (Gumboro) and its control. **[10 marks]**
- 3b) Discuss the four major livestock diseases caused by *Clostridium* species of bacteria? For each disease state the species of bacteria that causes it and the cardinal signs. **[10 marks]**

SECTION B: ANSWER ANY TWO QUESTIONS

- 4a) Briefly discuss mastitis, its predisposing factors and how you control it. **[10 marks]**
- 4b) Briefly discuss the cause, clinical signs and treatment of Milk Fever (Parturient Paresis) **[10 marks]**
- 5) Foot and Mouth Disease (FMD) is a disease of major concern in Southern Africa.
- 5a) Discuss the method of transmission, type of animals affected and clinical signs of Foot and Mouth Disease. **[12 marks]**
- 5b) Highlight the economic significance of Foot and Mouth Disease? **[4 marks]**
- 5c) State the major control methods for the disease? **[4 marks]**
- 6a) Discuss the impact of climate change on animal health and welfare in Zimbabwe. **[12 marks]**
- 6b) Outline adaptive strategies can be implemented to mitigate these impacts? **[8 marks]**

END OF EXAMINATION