

GWANDA STATE UNIVERSITY



FACULTY OF NATURAL RESOURCES MANAGEMENT AND AGRICULTURE

DEPARTMENT OF ANIMAL SCIENCES

BACHELOR OF SCIENCE HONOURS DEGREE IN ANIMAL SCIENCE

Animal Health and Welfare

LAS 2201

Second Semester Final Examination Paper

June 2023

This examination paper consists of 3 pages

Time Allowed: 3 hours
Total Marks: 100
Special Requirements: None
Examiner's Name: Dr B Moyo

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. Define the following terms as used in animal health and welfare.
- | | | |
|-------|--------------------|------------|
| i. | Infectious disease | [1 mark] |
| ii. | Haemoglobinuria | [1 mark] |
| iii. | Hypoplasia | [1 mark] |
| iv. | Splenomegaly | [1 mark] |
| v. | Stomatitis | [1 mark] |
| vi. | Aplasia | [1 mark] |
| vii. | Cyanotic membrane | [1 mark] |
| viii. | Icterus | [1 mark] |
- b. List five zoonotic diseases that you covered in this module. [5 marks]
- c. Present to the farmer the clinical signs of Botulism disease in cattle? [7 marks]

Question 2

A farmer reported Rabies outbreak on his farm and requested for your assistance.

- a. List the clinical signs of Rabies in female cattle. [10 marks]
- b. Describe the treatment of Rabies in cattle. [2 marks]
- c. What would you advise the farmer regarding the prevention and control of rabies in his cattle herd? [3 marks]
- d. What first aid should be given if his workers have been bitten by suspected rabid animal? [2 marks]
- e. State the forms in which rabies clinical signs appear. [3 marks]

Question 3

- i. Discuss the dipping rules that the farmer should observe for effective tick control in his farm. [12 marks]
- ii. What should the stockmen do before dipping so as to have effective tick control? [4 marks]
- iii. State four methods that could be used for determining the volume of a diptank. [4 marks]

SECTION B: ANSWER ONLY TWO QUESTIONS IN THIS SECTION

Question 4

An emerging beef farmer in Insiza District requests your assistance in drafting a programme to control ticks. He uses the plunge dip for his animal. However the farmer does not know the capacity/volume of his tank. He has the following measurements. Top length is 1000cm, bottom length is 600 cm, Top width is 100 cm, bottom width is 60cm and depth of the tank was 200 cm. The farmer uses Ektoban as an acaricide. He applies 25 litres of the acaricide as a fresh fill. The mixing ratio is 15ml:10 litres.

- a) Advise the farmer if he is applying the correct quantity. In your answer show him how you calculated the volume/capacity of the diptank and the amount of the acaricide needed. **[14 marks]**
- b) What are the effects applying 25 litres into his dip tank? **[3 marks]**
- c) Advise him how he should have effective dipping in his farm. **[3 marks]**

Question 5

- a). Discuss three types of animal welfare inputs. **[10 marks]**
- b). Discuss the difference between Animal conservation and Animal welfare. **[10 marks]**

Question 6

A farmer reported sudden death of animals and Anthrax disease was suspected.

- a). Discuss the possible clinical signs of anthrax diseases. **[8 marks]**
- b). What are the possible post mortem findings from animals that died from Anthrax disease? **[3 marks]**
- c). What are the complications associated with Foot and Mouth Diseases. **[6 marks]**
- d). Name six different immunological distinct serotypes of Foot and Mouth Diseases. **[3 marks]**

END OF QUESTION PAPER