

**GWANDA STATE UNIVERSITY**



**FACULTY OF LIFE SCIENCES**

**DEPARTMENT OF ANIMAL SCIENCE**

**BACHELOR OF SCIENCE HONOURS DEGREE IN ANIMAL SCIENCE**

**ANIMAL HEALTH**

**LAS 2104**

**First Semester Final Examination Paper**

**February 2022**

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**

<b>QUESTION</b>	<b>MARKS</b>
<b>SECTION A</b>	<b>60</b>
<b>SECTION B</b>	<b>40</b>
<b>TOTAL ATTAINABLE MARKS</b>	<b>100</b>

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**SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION**

**Question 1**

- i. List the clinical signs of Infectious Bursal disease. [8]
- ii. State the typical clinical signs of parasitism by internal parasites. [10]
- iii. Present to the farmer the clinical signs of Brucellosis in bulls. [2]

**Question 2**

- i. What are the clinical signs of anaplasmosis in cattle? [10]
- ii. List the postmortem signs of anaplasmosis in cattle. [10]

**Question 3**

An emerging beef farmer in Umzingwane District requests your assistance in drafting a programme to control ticks. He uses the plunge dip for his animals. 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 is 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 dip tank and the amount of the acaricide needed. [13]
- b) What are the effects of applying 25 litres into his dip tank? [ 3]
- c) State four methods that could be used for determining the volume of liquid a dip. [ 4]

**SECTION B. ANSWER ANY TWO QUESTIONS IN THIS SECTION**

**Question 4**

Discuss handling and use of vaccines in order to remain effective in preventing the occurrence of a disease. [20]

**Question 5**

- i. Discuss the prevention and control of Foot and Mouth disease done in Zimbabwe. [14]
- ii. State the complications of Foot and Mouth disease. [6]

**Question 6**

- i.** List the clinical signs of Bovine Ephemeral fever. **[10]**
- ii.** Discuss the measures to be taken when suspecting an anthrax disease. **[7]**
- iii.** State the predisposing factors of listeriosis. **[3]**

**Question 7**

You meet a sheep farmer in Insiza District and this farmer is much concerned about Pulpy kidney disease which has previously affected his flock.

- i.** List predisposing factors of Pulpy kidney disease. **[3]**
- ii.** Name the clinical signs associated with Pulpy kidney disease. **[9]**
- iii.** Point out the possible post mortem signs of Pulpy kidney disease in sheep kept in free range systems. **[8]**