

GWANDA STATE UNIVERSITY



FACULTY OF NATURAL RESOURCES MANAGEMENT AND AGRICULTURE

DEPARTMENT OF AGRICULTURAL ECONOMICS

BACHELOR OF SCIENCE HONOURS DEGREE IN AGRICULTURAL ECONOMICS

Principles of Agricultural Production

LAS2106

Main Examination Paper

September 2024

This examination paper consists of 3 printed pages

Time Allowed: 3 hours
Total Marks: 100
Special Requirements: None
Examiner's Name: Ms C. Matitima

INSTRUCTIONS

1. Answer **all** questions in Section A
2. Answer **only 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) List the benefits of animal domestication. **[5]**
- b) Outline the functions of the following:
 - i. Water **[3]**
 - ii. Proteins **[3]**
 - iii. Carbohydrates **[3]**
 - iv. Lipids **[3]**
 - v. Minerals **[3]**

QUESTION 2

- a) What are the effects of tick infestation in cattle and goat production? **[6]**
- b) List the challenges faced by poultry production industry in Zimbabwe. **[5]**
- c) State the advantages of crossbreeding as a practice in pig production. **[5]**
- d) In animal welfare there is high emphasis on good management practices. Explain the good management practices that should be carried out pertaining to the health aspect of livestock. **[4]**

QUESTION 3

- a) Discuss the advantages and disadvantages of artificial insemination. **[10]**
- b) Explain the factors associated with the incidence of dystocia in cattle production. **[10]**

SECTION B: ANSWER ONLY TWO QUESTIONS

QUESTION 4

- a) Discuss Blackleg/ Quarter Evil (QE) under the following headings:
- i. Aetiology
 - ii. Clinical signs
 - iii. Diagnosis
 - iv. Postmortem findings
 - v. Treatment
 - vi. Prevention and control [20]

QUESTION 5

- a) Outline the signs of heat in cattle [8]
- b) The actual calving process can be divided into 3 stages. Discuss these 3 stages in detail.
[12]

QUESTION 6

- a) Fodder preservation is an important aspect in animal production. Describe the processes involved in hay and silage making methods used to preserve fodder. [14]
- b) Briefly discuss how nutrients are lost during the process of:
- i. Hay making, and [4]
 - ii. Silage making. [2]

THE END