

GWANDA STATE UNIVERSITY



FACULTY OF LIFE SCIENCES

DEPARTMENT OF ANIMAL SCIENCES

BACHELOR OF SCIENCE HONOURS DEGREE IN CROP SCIENCE

Non-ruminant Production

LAS2210

Final Examination

June-July 2019

This examination paper consists of 3 pages

Time Allowed: 3 hours

Total Marks: 100

Special Requirements: None

Examiner's Name: Moyo S

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. Outline the economic importance of raising non-ruminants in Zimbabwe. [5]
- b. Give the scientific name of the following non-ruminant animals
- i. Pig [2]
 - ii. Chickens [2]
- c. State the gestation period for the following domesticated animals:
- Pig [1]
- d. What is the mating ratio for chickens. [1]
- e. Outline 4 elements of a good piggery unit about pig. [4]

QUESTION 2

- a. The Pig Industry Board of Zimbabwe (PIB) is a parastatal under the Ministry of Lands, Agriculture and Rural Resettlements. Outline the core functions of this board. [3]
- c. Discuss a common Zimbabwean pig breed under the following headings
- i. Name of the breed [1]
 - ii. Characteristics [5]
 - iii. Color [1]
- d. Broilers chicken management is very critical at an early stage. Briefly discuss the precautions taken in the poultry house before the arrival of day old chicks. [10]

QUESTION 3.

- b. Explain the following terms as they are used in non-ruminant production
- i. Pullet [1]
 - ii. Incubation [1]
 - iii. litter [1]
 - iv. Gilt and [1]
 - v. Cannibalism [1]

QUESTION 4

- a. Discuss the economic importance of Newcastle disease in poultry industry in Zimbabwe. [10]
- b. How can Newcastle be controlled in Zimbabwe. [10]

SECTION B ANSWER ONLY TWO QUESTIONS

QUESTION 5

- a. The supply of light to layers is one of the most powerful tools to ensure a constant level of production. Discuss the mechanism by which light affects production in layers. **[10]**
- b. Discuss constraints faced by smallholder farmers in raising indigenous chicken in Zimbabwe. **[10]**

QUESTION 6

- a. Pig production farmers experiences some challenges; disease is one of them. Discuss mange disease under the following headings:
 - i. Causal agent; **[1]**
 - ii. Symptoms; **[4]**
 - iii. Prevention and **[3]**
 - iv. Treatment. **[2]**
- b. There is a disease which seem to increasing incidences especially among broiler producers. This is commonly called Ascites. Discuss Ascites in broiler production under the following headings:
 - i. Cause **[3]**
 - ii. Clinical signs **[3]**
 - iii. Diagnosis **[2]**
 - iv. Control **[2]**

QUESTION 7

- a. Outline and discuss factors to be considered when selecting a boar for breeding purposes **[10]**
- b. Explain how heritability affect genetic progress in non-ruminants **[10]**

END OF EXAMINATION