



*“Investing in Africa’s future”*

**COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES**

**NAAS 303: NON-RUMINANT PRODUCTION**

**END OF SECOND SEMESTER FINAL EXAMINATIONS**

**APRIL 2024**

**LECTURER: PROF. J. MADZIMURE**

**DURATION: 3 HOURS**

---

**INSTRUCTIONS**

Answer All Questions from Section A

And Answer Three Questions from Section B

This paper has 3 printed pages

**SECTION A - COMPULSORY (40 MARKS)**

**QUESTION 1**

a) Define the following terms:

- i. Lordosis reflex [2]
- ii. Notifiable disease [2]
- iii. Mummification [2]
- iv. Chick brooding [2]
- v. Flushing gilts [2]

b) Write short notes on:

- i. Management of boars for maximum production. [5]
- ii. Parasites control in commercial layers production. [5]
- iii. Animal welfare during broiler slaughter. [8]
- iv. Precision livestock production. [7]

c) Describe the herd health policy for Africa University's piggery unit. [5]

## **SECTION B**

**(Answer any three (3) questions in this section) (60 Marks)**

### **QUESTION 2**

Discuss any five considerations a farmer should make during site selection and lay-out of poultry buildings. [20]

### **QUESTION 3**

Describe the environmental conditions that will encourage good embryo development at Charles Stewart commercial hatchery. [20]

### **QUESTION 4**

Recommend any four strategies for a commercial broiler farm to enter the local, regional and international market. [20]

### **QUESTION 5**

Describe the selection criteria for gilts at a named commercial farm of your choice in your country. [20]

### **QUESTION 6**

Develop a biosecurity protocol that can be adopted at Millocreat Pvt Ltd, a newly established mixed commercial farm in Manicaland Province of Zimbabwe. [20]

**END OF QUESTION PAPER**