

"Investing in Africa's future"

# COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

NAAS 403: NON-RUMINANT ANIMAL PRODUCTION

#### END OF SECOND SEMESTER FINAL EXAMINATIONS

## **MAY/JUNE 2020**

LECTURER: MR. P. B. MUVHURINGI

**DURATION: 48 HRS** 

#### **INSTRUCTION**

Choose and Answer ONE question Only

All Questions Carry Equal Marks (100)

### **Question 1**

a. A commercial farmer at Kildrum farm intends to venture into broiler production. Using the following headings, advise the farmer to execute proper management of the broiler chickens: i. Housing [5] Preparation to receive a batch of chicks [5] iii. Early checks on chicks [5] iv. Brooding [10] v. Feeding equipment [5] vi. Stocking density [5] vii. Ventilation [5] viii. Vaccination [5] ix. Feeds [10] Marketing [5] Χ. b. Giving reasons, suggest a breeding system that you will recommend to a smallholder layers birds producer in Zimbabwe. [20] c. Name and explain the factors which lead to high number of returns in oestrus in gilts. [20] **Question 2** 2. a. Explain why road runners cannot be fed with layers mash. [5] b. Which factors should a farmer consider when formulating feeds? As a Livestock Production Specialist, formulate a piggery diet of 15% CP that consists of a supplement of 60% fish meal (45%CP) and 40% Soybean meal (50% CP) and grain mixture of 65% sorghum (9%CP) and 35% maize (12%CP). [45] c. Suggest ways of improving layers production in the smallholder farming sector Zimbabwe. [20] d. Give characteristics and disadvantages of three named breeds of pigs. [30]

# **Question 3**

Region 2 in Zimbabwe? Indicate the reasons for choosing that breed. [20]

b. Suggest four major protein sources for on-farm feed formulation and production for monogastric animals. For each source, highlight the major limitations. [20]

c. Describe and explain the causes of poor growth in finisher pigs. [20]

3. a. Which breed/ breeds of pigs will you recommend to a large scale farmer in

- d. Explain the major causes of mortalities in broiler production. [20]
- e. Compare and contrast the production systems used in layers production in Zimbabwe. Stating reasons, suggest the production system that you will recommend for a communal farmer in Chiweshe. [20]

#### **END OF EXAMINATION PAPER**