

ANSC 0260

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE AWARD OF DIPLOMA IN ANIMAL HEALTH AND PRODUCTION

ANSC 0260: LIVESTOCK PRODUCTION NON-RUMINANT

STREAMS:DIP (AGED & AGRICULTURE)

TIME: 2 HOURS

DAY/DATE: FRIDAY 12 /4/2024

11.30 A.M. – 1.30 P.M.

INSTRUCTIONS:

- Attempt ALL Questions in Section A and any TWO in Section B
- Do not write on the question paper
- Use illustration where necessary

SECTION A: (30 marks)

QUESTION ONE

- List the most limiting amino acids in feed stuff of poultry. (2 marks)
- Explain in detail how to manage piglets in order to reduce mortalities. (4 marks)
- Briefly explain the criteria used in selecting a breeding doe. (2 marks)
- Give the role of caecum in the digestive system of a poultry. (1 mark)
- Describe a chinchilla breed of rabbit giving their characteristic features. (3 marks)
- Compare and contrast the management of a chicken layer in a battery cage and a deep litter system of production. (3 marks)
- How do you minimize stress in rabbit production? (2 marks)
- Outline ways of achieving higher pregnancy percentage in sows. (4 marks)
- Outline factors which determine water uptake by rabbits. (2 marks)
- What causes fluctuation or irregular laying in poultry? (2 marks)
- Highlight the factors affecting litter size in pigs. (2 marks)
- State the different parts of an oviduct of an hen giving its functions. (3 marks)

SECTION B: 40 MARKS

QUESTION TWO

- (a) Mr. Nanua is a poultry farmer based in Tharaka Nithi County running a hatchery. Since last month the number of chicks hatched has dropped drastically. Advise him on conditions necessary in an incubator for maximum hatchability of eggs. (10 marks)
- (b) The Chuka University farm has an interest of raising broilers under deep litter system for teaching purposes. As an expert advise them on a successful management of a one day old chick. (10 marks)

QUESTION THREE

- (a) One aspect of rabbit nutrition is caecotrophy, discuss in detailed the concept of caecotrophy mode of feeding in rabbits, highlighting its benefits. (8 marks)
- (b) Rabbit production is gaining prominence amongst Kenyan farmers. Prepare a farmers training notes detailing the following mating in rabbits and fostering process. (12 marks)

QUESTION FOUR

- (a) Describe the criteria used in selecting boar for breeding and explain the care needed for young boars before their first service. (10 marks)
 - (b) Scavenging is a production system where pigs are let loose day and night on a self-supporting feeding management system. Give the characteristics associated with this production system. (10 marks)
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