

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL HEALTH AND PRODUCTION**

**ANSC 00260: NON-RUMINANT PRODUCTION**

**STREAMS: CERT. ANHE**

**TIME: 2 HOURS**

**DAY/DATE: MONDAY 14/04/2025**

**2.30 P.M. – 4.30 P.M.**

**INSTRUCTIONS:**

- Answer all questions in SECTION A and any TWO questions in SECTION B
- Do not write on the question paper

**SECTION A: [40 MARKS]**

**QUESTION ONE**

Define the following terms

- |                         |           |
|-------------------------|-----------|
| (a) Boar                | [2 Marks] |
| (b) Apiary              | [2 Marks] |
| (c) Supercedure         | [2 Marks] |
| (d) Breed               | [2 Marks] |
| (e) Temporal polytheism | [2 Marks] |

**QUESTION TWO**

- (a) Give the role of the following bees in a colony;
- |             |           |
|-------------|-----------|
| (i) Worker  | [4 Marks] |
| (ii) Drone  | [1 Mark]  |
| (iii) Queen | [2 Marks] |
- (b) List **three** dances performed by honey bees as a means of communication to hive mates.
- [3 Marks]

**QUESTION THREE**

- (a) Explain the process undergone by an egg as it passes through the following parts of the oviduct during its formation
  - (i) Magnum [2 Marks]
  - (ii) Isthmus [2 Marks]
  - (iii) Uterus [2 Marks]
- (b) What is the significance of an egg turning through an angle of 180° in uterus before oviposition? [4 Marks]

**QUESTION FOUR**

- (a) List **five** characteristic features of landrace breed of pigs. [5 Marks]
- (b) Give the reasons why the following routine practices are conducted on piglets.
  - (i) Iron supplementation [1 Mark]
  - (ii) Castration [2 Marks]
  - (iii) Docking [2 Marks]

**SECTION B [30 MARKS]**

**QUESTION FIVE**

Discuss in detail the honey harvesting process indicating all the equipment needed and the function (s) of each. [15 Marks]

**QUESTION SIX**

Outline factors to consider before investing in aquaculture. [15 Marks]

**QUESTION SEVEN**

Discuss the benefits of engaging in non-ruminant animal husbandry. [15 Marks]

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