UNIVERSITY EXAMINATIONS

1ST SEMESTER 2022/2023 ACADEMIC YEAR

FOURTH YEAR EXAMINATIONS FOR BACHELOR OF SCIENCE IN AGRICULTURAL EXTENSION AND EDUCATION

AGED 418: NON-RUMINANT PRODUCTION

STREAM: R   *TIME: 2 HRS*

DAY: TUESDAY (11.30-1.30PM)   DATE: 20/12/22

THIS QUESTION PAPER CONSISTS OF TWO (2 PAGES)

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

Vision: *A University for Valued Transformation of Society*   *Page 1 of 2*
Mission: *To serve students and society through research, education, scholarship, training, innovation, outreach and consultancy*

Laikipia University is ISO 9001:2015 and ISO/IEC 27001:2013 Certified

INSTRUCTIONS: Answer questions **ONE** and any **TWO** questions

QUESTION ONE: COMPULSORY QUESTION (30 MARKS)

a) Highlight **FOUR** characteristics of Large white breed of pigs (4 mks)
b) Briefly explain **THREE** points on how growth rate and good mothering ability are traits of economic importance (3 mks)
c) Differentiate between out crossing and cross breeding (3 mks)
d) Briefly explain how a bee keeper can prevent absconding (2 mks)
e) Highlight the functions of hive tool and catcher box (4 mks)
f) Comment causes of unsustainable chicken feeds (3 mks)
g) Consumers prefer meat from indigenous chicken. Briefly explain (3 mks)
h) Outline **FOUR** characteristics of Chinchilla breed of rabbits (2 mks)
i) Give four key management practices for kindles (2 mks)
j) Non-ruminants nutrition faces major challenges as compared to ruminants. Briefly explain (4 mks)

QUESTION TWO (20 MARKS)

a) A group of farmers want to venture in pig farming. Explain the challenges in pig industry in Kenya? (8 mks)

b) As an extension agent, provide information to a group of farmers interested in commercial pig rearing. (12 mks)

QUESTION THREE (20 MARKS)

a) Honey bee is known to exhibit high level of communication that ensures all activities in the hive are well coordinated. Discuss. (8 mks)

b) Discuss various ways of increasing honey production in an apiary (12 mks)

QUESTION FOUR

a) Discuss why keeping indigenous chicken can be recommended to farmers (8 mks)

b) Discuss the management of breeding boar (12 mks)

QUESTION FIVE

a) Differentiate between drone and worker bees in a colony (8 mks)

b) Discuss the factors to consider when siting an apiary (12 mks)

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