



MACHAKOS UNIVERSITY

University Examinations for 2016/2017 Academic Year

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

THIRD YEAR EXAMINATION FOR DIPLOMA IN AGRICULTURAL
EDUCATION AND EXTENSION

ANS 0340: NON-RUMINANT ANIMAL PRODUCTION

DATE: 31/7/2017

TIME: 2:00 – 4:00 PM

INSTRUCTIONS:

QUESTION ONE and any two questions in section B

QUESTION ONE (compulsory) (30 marks)

- a) Distinguish between ruminant and non-ruminant livestock (2 marks)
- b) Explain FOUR advantages of keeping rabbits. (4 marks)
- c)
 - i. Explain the meaning of the term 'aquaculture' (2 marks)
 - ii. Cite FOUR aquaculture fish species grown in Kenya (4 marks)
- d) Describe **FOUR** hive products and their uses (4 marks)
- e) Explain the **FOUR** characteristics of 'light weight poultry **breeds**' (4 marks)
- f) Explain the following terminologies: -
 - i) Coprophagy (2 marks)
 - ii) Swarming (2 marks)
 - iii) Spawning (2 marks)
 - iv) Brooding (2 marks)
 - v) Farrowing (2 marks)

SECTION B: ANSWER ANY TWO QUESTIONS (40MARKS)

QUESTION TWO (20 MARKS)

- a) Explain the ideal site for locating an apiary. (6 marks)
- b) Describe the bee keeping equipment used for apiculture. (14 marks)

QUESTION THREE (20 MARKS)

- a) In a farm at Machakos, a farmer set 500 eggs in an incubator. On the 21st day after setting the eggs, 450 chicks were hatched.
- i) Calculate the percentage hatchability of the eggs. (2 marks)
- ii) Explain important **Four** factors that influence good hatching percentages in an incubator (8 marks)
- b) Explain the management of chicks during the brooding stage. (10 marks)

QUESTION FOUR (20 MARKS)

- a) Explain **SEVEN** advantages of housing pigs. (14 marks)
- b) Explain **SIX** Factors to consider in the selection of a breeding gilt (6 marks)

QUESTION FIVE (20 MARKS)

- a) Explain the **FOUR** roles of beekeeping in Agriculture. (8 marks)
- b) Explain **FIVE** factors an aquaculturist should consider when marketing his fish. (10 marks)