



UNIVERSITY EXAMINATIONS 2013/2014 ACADEMIC YEAR

**3rd YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
AGRICULTURE AND ENTERPRISE DEVELOPMENT**

**COURSE CODE/ TITLE: KRM/ARM 309: NON-RUMINANT ANIMAL
PRODUCTION**

END OF SEMESTER II

DURATION: 3 HRS

DAY/TIME: WEDNESDAY 2.00 -5.00PM

DATE: 16/04/2014 (PL9)

Section A – 30 marks – ANSWER ALL QUESTIONS

Question one

The table below show different types of non-ruminants that are kept by farmers. Fill in the column showing the gestation/incubation period and name given to its young one (6 Marks)

	Non-ruminant animal	Incubation/Gestation period	Young one
1	Ducks		
2	Turkey		
3	Porcine		
4	Rabbit		
5	Geese		
6	Chicken		

Question two

- a) What is the function of a footbath at the entry of the poultry house? (2 marks)
- b) Calculate the maximum and minimum number of the following chicken categories that can be raised in a deep litter house with a floor space of 10m x 20 m (6 marks)
 - i) chicks
 - ii) Layers
 - iii) Broilers

Question three

- a) Differentiate between pseudo pregnancy and coprophagy in rabbits (2 marks)
- b) List any six ideal features of a rabbit pellet feeder. (3 marks)
- c) Outline five reasons why it is recommended to take a sow on heat to the boar pen for mating and not the boar to the sows pen. (5 marks)

Question four

- a) Outline six ways of reducing egg eating vice in poultry layers (3 marks)
- b) Explain any six criteria of differentiating a poor layer and a good layer (6 marks)

Question five

- a) A pig scientist used Hazel and Cline method in establishing back fat thickness of sow P22. The three points(shoulder, loin, ham-loin joint)had the following variables 20mm , 24mm ,18mm respectively. According to the feeding records, 5kg of sow and weaner meal yields 1kg gain in body weight. If the Average Daily Gain in weight is 300g, calculate its selection index score. (5 marks)
- b) Apart from Hazel and Cline method , list two other methods used in estimating back fat thickness in pigs. (2 marks)

Section B Answer any two question – 30 MARKS

Question eight

- a) Explain briefly two main features of a deep litter house (4 marks)
- b) Outline any five equipment/structures that can be found inside a deep litter house used for raising layers ,their function and main features (13 marks)

Question nine

- a) Assuming you are a commercial quail farmer in Kilifi Township with over 10,000 quails birds .Explain various strategies how you would popularize consumption of quail products such as egg and meat therefore opening market channels for your product in Kilifi County . (9 marks)
- b) Explain any six reasons why pig production in Coastal region is a rudimentary livestock enterprise. (6 marks)

Question 10

Assuming you have been invited by 4KClub at Kilimo primary school to give a talk on rabbit production. Highlight what you are likely to inform them under the following sub-headings

- a) Importance of rabbit keeping (7 marks)
- b) Slaughtering procedure . (8 marks)