



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)

University Examinations 2015/2016 Academic Year

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF AGRICULTURE EDUCATION AND EXTENSION

FIRST SEMESTER EXAMINATION FOR DEGREE IN BACHELOR OF SCIENCE IN
AGRICULTURE EDUCATION AND EXTENSION

KRM 307: NON RUMINANT ANIMAL PRODUCTION

Date: 9/8/2016

Time: 2.00-4.00 PM

INSTRUCTIONS:

Answer Question One And Two Other Questions

SECTION A (COMPULSORY) 30 MARKS

QUESTION ONE:

- a) Explain the following behavioral Terminologies :-
 - i) Swarming in bees (2 marks)
 - ii) Broodiness in poultry (2 marks)
 - iii) Coprophagy in rabbits (2 marks)
 - iv) Creep feeding in pigs (2 marks)
- b) Explain any **TWO** morphological differences between the queen bee and the female workers bees. (4 marks)
- c) Explain **FOUR** advantages of the battery cage system for egg production in layers. (4 marks)
- d) Describe **FIVE** character traits used in selecting Breeding gilts. (5 marks)
- e) Describe **FOUR** symptoms of coccidiosis in rabbits. (4 marks)
- f) Explain **FIVE** advantages of using the Langstroth hive. (5 marks)

SECTION B: ANSWER ANY TWO QUESTIONS 40 MARKS

QUESTION TWO:

- a) With the aid of a diagram describe the digestive system of the domestic fowl. (10 marks)
- b) Explain the characteristics of the following domestic fowl breeds
 - i) Layer breeds (5 marks)
 - ii) Dual purpose (5 marks)

QUESTION THREE

Explain the following management processes in rabbit keeping

- a) Mating of rabbits. (5 marks)
- b) Gestation in rabbits. (5 marks)
- c) Kindling in does. (5 marks)
- d) Sex determination in young rabbits. (5 marks)

QUESTION FOUR

- a) Explain the importance of beekeeping to the Kenyan economy. (10 marks)
- b) Outline the following processes
 - i) Replacement of the queen bee (5 marks)
 - ii) Colony division (5 marks)

QUESTION FIVE

- a) Explain the management of piglets from birth to weaning. (10 marks)
- b) Describe coccidiosis in rabbits under the following
 - i) Symptoms (6 marks)
 - ii) Prevention (4 marks)