

## **MACHAKOS UNIVERSITY**

**University Examinations for 2018/2019 Academic Year** 

#### SCHOOL OF AGRICULTURAL SCIENCES

# DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION THIRD YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

### BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

**ANS 302: NON-RUMINANT ANIMAL PRODUCTION** 

DATE: 23/7/2019 TIME:2.00-4.00 PM

### **INSTRUCTIONS**;

# Answer QUESTION ONE and any two questions in section B QUESTION ONE (30 MARKS)

- a) Explain the importance of the following:
  - i. Candling of eggs

(2 marks) (2 marks)

- ii. Creep feeding of piglets-
- b) In Ethiopia a queen bee can be sold on market days. Using **TWO** external features explain how the queen bee can be distinguished from a worker bee (2 marks)
- c) Explain **TWO** advantages of using a Langstroth hive as compared to using The Kenya
  Top Bar Hive (4 marks)
- d) Explain the causes of the following behavior
  - i. Day old brooding chicks crowding at the edges of the brooder guard board.

(2 marks)

- ii. Pregnant rabbit does plucking fur or hair from their bellies and sides. (2 marks)
- e) Explain **FOUR** disadvantages of the 'Cat fish' (*Clarius gariepinus*) as an aquaculture species (4 marks)

f) Failure to lay eggs is one of the main reasons for culling layers. Explain FOUR signs of a non-laying hen (4 marks) A farmer in Kilimambogo would like to stock Landrace pigs. Describe TWO external g) features that help him distinguish a Landrace pig from a large white pig. (4 marks) h) Explain **FOUR** uses of honey (4 marks) SECTION B. Answer any TWO questions in this section **QUESTION TWO (20 MARKS)** Describe **FIVE** requirements for the efficient functioning of an incubator (10 marks) b) A farmer in katumani has arranged for day old chicks to be brought to his farm. Describe the activities he will do in day1 (10 marks) **QUESTION THREE (20 MARKS)** Explain **FIVE** causes of newborn mortality in Piglets (10 marks) a) b) Describe the symptoms and prevention of post weaning diarrhea in piglets (10 marks) **QUESTION FOUR (20 MARKS)** Explain **FIVE** constraints faced by beekeepers in Kenya (10 marks) a) b) Explain **FIVE** ways that a beekeeper can prevent swarming in his apiaries (10 marks) **QUESTION FIVE (20 MARKS)** 

Explain **FIVE** reasons for record keeping in rabbit production

Explain **FIVE** management practices for young bunnies

a)

b)

(10 marks)

(10 marks)