

MACHAKOS UNIVERSITY

University Examinations for 2017/2018 Academic Year

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION

SECOND SEMESTER EXAMINATION FOR BACHELOR OF SCIENCE IN AGRICULTURE EDUCATION AND EXTENSION SUPPLEMNTARY/SPECIAL

ANS 301: RUMINANT ANIMAL PRODUCTION

Date:	Time:

Instructions QUESTION ONE and any two questions in section B

QUESTION ONE

- a) Explain the importance of the following:
 - i. Candling of eggs (2mks)
 - ii. Creep feeding of piglets- (2mks)
- 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 (2mks)
- c) Explain **TWO** advantages of using a Langstroth hive as compared to using The Kenya Top Bar Hive (4mks)
- d) Explain the causes of the following behavior
 - i. Day old brooding chicks crowding at the edges of the brooder guard board. (2mks)
 - ii. Pregnant rabbit does plucking fur or hair from their bellies and sides. (2mks)
- e) Explain **FOUR** disadvantages of the 'Cat fish' (*Clarius gariepinus*) as an aquaculture species (4mks)

- e) Failure to lay eggs is one of the main reasons for culling layers. Explain **FOUR** signs of a non-laying hen (4mks)
- f) A farmer in Kilimambogo would like to stock Landrace pigs. Describe TWO external features that help him distinguish a Landrace pig from a large white pig. (4mks)
- g) Explain FOUR uses of honey (4mks)

SECTION B. Answer any TWO questions in this section

QUESTION TWO

- a) Describe FIVE requirements for the efficient functioning of an incubator (10mks)
- 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

- a) Explain **FIVE** causes of newborn mortality in Piglets (10mks)
- b) Describe the symptoms and prevention of post weaning diarrhea in piglets (10mks)

QUESTION FOUR

- a) Explain **FIVE** constraints faced by beekeepers in Kenya (**10mks**)
- b) Explain FIVE ways that a beekeeper can prevent swarming in his apiaries (10mks)

QUESTION FIVE

- a) Explain **FIVE** reasons for record keeping in rabbit production
- b) Explain **FIVE** management practices for young bunnies (**10mks**)