

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 301: RUMINANT ANIMAL PRODUCTION

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

INSTRUCTIONS;

Answer QUESTION ONE and any two questions

QUESTION ONE (30 MARKS)

| a) | Explain TWO occasions where paint is used to identify animals | | (4 marks) |
|----|---|---|-----------|
| b) | Explain the advantages of full hand milking | | (4 marks) |
| c) | Explain TWO advantages of crossing Bos indicus and Bos taurus cattle bre | | |
| | tropic | S | (4 marks) |
| d) | Explain FOUR reasons for housing livestock (4 m | | (4 marks) |
| e) | Explain the terminology 'fertility' | | (2 marks) |
| f) | Explain the importance of the following. | | |
| | i. | Body condition | (2 marks) |
| | ii. | Dehorning | (2 marks) |
| g) | Distin | guish between in breeding and line breeding | (4 marks) |
| h) | Describe FOUR management activities that should be done on kidding (4 marks) | | |

QUESTION TWO (20 MARKS)

- a) Explain **FIVE** advantages of mating heifers using Artificial insemination (10 marks)
- b) Describe 5 characteristics for a breeding doe (10 marks)

QUESTION THREE (20 MARKS)

- a) The teeth of an animal will determine its productivity and longevity of service to the farmer. Describe how the age of sheep can be determined using its teeth (10 marks)
- b) Explain FIVE advantages of partitioning a sheep house (10 marks)

QUESTION FOUR (20 MARKS)

- a) Describe FIVE factors that hinder Kenya from fully benefiting from animal ruminant livestock (10 marks)
- b) Describe **FIVE** premating activities that should be carried out in bucks (10 marks)

QUESTION FIVE (20 MARKS)

- a) Describe **FIVE** practices to be considered when weaning lambs (10 marks)
- b) Explain **FIVE** roles of camels in the pastoralist economy (10 marks)