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University Examinations 2015/2016

FIRST YEAR, SECOND SEMESTER EXAMINATION FOR THE CERTIFICATE IN
AGRICULTURE

ANS 0130: RUMINANT HUSBANDRY

DATE: NOVEMBER 2015

TIME: 1½ HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions

QUESTION ONE (30 MARKS)

- a) Define the following terms:
- i) Ruminants (2 Marks)
 - ii) Species (2 Marks)
 - iii) Breed (2 Marks)
 - iv) Persistency (2 Marks)
- b) Discuss five economic importance or ruminant animals to man (5 Marks)
- c) Explain the major differences between Ruminants and non-ruminants (5 Marks)
- d) Name the four stomach chambers of ruminant animals and describe the characteristic features of each chamber (5 Marks)
- e) Mastitis is major common challenge facing dairy farmers throughout the world. What is the causative agent, symptoms, treatment and control of mastitis? (5 Marks)

QUESTION TWO (15 Marks)

- a) Name four exotic dairy breeds in Kenya. Describe any two of the breeds indicating their origin, performance, and their advantages and disadvantages (5 Marks)
- b) Draw a sketch plan of a two dairy cow zero grazing unit. Describe advantages and disadvantages of a zero grazing rearing system (10 Marks)

QUESTION THREE (15 MARKS)

- a) Describe selection and culling as a herd management tool. (5 Marks)
- b) Enumerate the factors that you consider when culling ruminants (10 Marks)

QUESTION FOUR (15 MARKS)

- a) Explain the following terms:
- i) Natural mating (2 Marks)
 - ii) Controlled mating (2 Marks)
 - iii) Heat synchronization (2 Marks)
 - iv) Artificial insemination (2 Marks)
 - v) Steaming up and flushing (2 Marks)
- b) Describe the general heat signs in cattle and the best time to present a cow in heat for service (A.I)