



# MERU UNIVERSITY COLLEGE OF SCIENCE & TECHNOLOGY

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## University Examinations 2012/2013

FIRST YEAR, SECOND SEMESTER EXAMINATION FOR CERTIFICATE IN AGRICULTURE

### ANS 0130: RUMINANT HUSBANDRY

DATE: DECEMBER 2012

TIME: 1 ½ HOURS

INSTRUCTIONS: Answer question **ONE** and any other **TWO** questions

#### QUESTION ONE – 30 MARKS

- (a) Describe the heat symptoms of a dairy cow under the following sub-headings:
- (i) Early Heat: (3Marks)
  - (ii) Standing Heat (5Marks)
  - (iii) After Heat (3Marks)
- (b) (i) State three important factors in dairy cattle herd fertility. (3Marks)
- (ii) What general advice would you give to a dairy cattle farmer so that the cow is served on time and he gets one calf per cow per year? (8Marks)
- (c) (i) What is steaming up in dairy cattle management? (2Marks)
- (ii) State three reasons for steaming up a dairy cow. (3Marks)
- (iii) If a dairy cow is served on 25/11/2012 and holds service, what is the expected date of calving down? Show your working. (3Marks)

#### QUESTION TWO – 15 MARKS

- (a) Name two Tropical Dairy Goats. (2Marks)
- (b) Good health in dairy goats means better yields.
- (i) What are symptoms of worm infestation in a dairy goat? (3Marks)
  - (ii) How can a farmer treat worm infestation in dairy goats? (2Marks)
- (c) Explain reasons why the following practices are carried out in dairy goat Management?
- (i) Hand mating. (2Marks)
  - (ii) Identification. (2Marks)
  - (iii) Vaccination. (2Marks)
  - (iv) Dehorning. (2Marks)

### **QUESTION THREE – 15 MARKS**

- (a) What do you understand by the following terms as used in livestock feeding?
- (i) Dry matter. (2Marks)
  - (ii) Starch equivalent. (2Marks)
  - (iii) Digestibility. (2Marks)
- (b) State any five factors that affect digestibility of feed. (10Marks)

### **QUESTION FOUR – 15 MARKS**

- (a) Describe Fleckvieh cattle breed under the following sub-headings.
- (i) Origin.
  - (ii) Colour.
  - (iii) Milk Yield.
  - (iv) Hardiness.
  - (v) Growth rate. (10Marks)
- (b) Explain the characteristics of Boran Cattle that make them do well in the tropics. (5Marks)

### **QUESTION FIVE – 15MARKS**

- (a) Name any five parts of a plunge dip and explain their uses. (10Marks)
- (b) What is the use of: (5Marks)
- (i) Halter.
  - (ii) Water bucket.
  - (iii) Syringe and needle.
  - (iv) Trocar and camula.
  - (v) Burdizzo pliers.