



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 – Meru-Kenya.

Tel: 020-2069349, 061-2309217. 064-30320 Cell phone: +254 712524293, +254 789151411

Fax: 064-30321

Website: [www.mucst.ac.ke](http://www.mucst.ac.ke) Email: [info@mucst.ac.ke](mailto:info@mucst.ac.ke)

---

## University Examinations 2012/2013

FIRST YEAR, SECOND SEMESTER EXAMINATION FOR CERTIFICATE/DIPLOMA IN  
AGRICULTURE

### ANS 0130: RUMINANT HUSBANDRY

DATE: AUGUST 2013

TIME: 1 ½ HOURS

---

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

---

#### QUESTION ONE (30 MARKS)

- a) What do you understand by the following terms as used in sheep management?
- Ewe lamb
  - Hogget
  - Tupping
  - Lambing percentage (4 Marks)
- b) The following practices are carried out in sheep management before tupping. Explain what each means and the reasons why it is carried out.
- Shearing
  - Dipping
  - Flushing
  - Hood trimming
  - Crutching
  - Raddling (12 Marks)
- c) i) The following are the grades of sheep meat.
- Mutton
  - Lamb

Explain what each grade is. (3 Marks)

ii) Dorper sheep is an ideal mutton sheep in range areas. How was it developed? (2 Marks)

- iii) Which crossbreed sheep other than dorper is suitable for mutton production in damp humid areas of Kenya and why is it suitable? (3 Marks)
- d) i) What is parturition in livestock production? (1 Mark)
- ii) List the signs of approaching parturition in livestock. (5 Marks)

#### **QUESTION TWO (15 MARKS)**

- a) List the nutrients that make up a balanced ration for a dairy cow. (4 Marks)
- b) What is the effect of ration which is not balanced on a dairy cow? (3 Marks)
- c) i) Differentiate between succulent and dry roughages. (2 Marks)
- ii) Give any four succulent roughages and any two dry roughages for feeding a dairy cow. (6 Marks)

#### **QUESTION THREE (15 MARKS)**

- a) Name any four living causes of diseases in livestock. (4 Marks)
- b) Explain how the following conditions can be used to tell whether an animal is in good or bad health.
- i. Body temperature
  - ii. Appetite
  - iii. Dung and urine
  - iv. Production level (8 Marks)
- c) i) What is a notifiable disease? (2 Marks)
- ii) Give one example of a notifiable disease in a dairy cattle production. (1 Mark)

#### **QUESTION FOUR (15 MARKS)**

- a) i) List six livestock management practices that can be carried and in a crush (6 Marks)
- ii) Why should the floor of a calf pen be movable, slatted and raised above the ground? (2 Marks)
- b) List four factors that should be considered when selecting materials for constructing a dairy shed. (4 Marks)
- c) Give three reasons why a farmer should use concrete floors when constructing dairy sheds. (3 Marks)

#### **QUESTION FIVE (15 MARKS)**

- a) i) Name the species of camels. (2 Marks)
- ii) Which species of camel is found in Kenya? (1 Mark)
- b) Explain the adaptations of a camel that make it survive in arid and semi-arid areas. (9 Marks)
- c) How does a donkey defend itself? (3 Marks)