



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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## University Examinations 2013/2014

SECOND YEAR, SECOND SEMESTER EXAMINATIONS FOR DIPLOMA IN  
AGRICULTURE

### ANS 0232: ANIMAL BREEDING AND NUTRITION

DATE: APRIL 2014

TIME: 1 ½ HOURS

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

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#### QUESTION ONE – (30 MARKS)

- (a) Explain why animals must have nutrients. (5 Marks)
- (b) Explain what is meant by the following terms. (5 Marks)
- (i) Breeding
  - (ii) Genetics
  - (iii) Grading up
  - (iv) Phenotype
  - (v) Species hybridization. (5 Marks)
- (c) List any five nutrients essential to life. (5 Marks)
- (d) Outline the rational/reasons why animal breeders must adopt livestock improvement. (5 Marks)
- (e) Describe the role of protein to animals. (5 Marks)
- (f) Outline the disadvantages and advantages of inbreeding. (5 Marks)

#### QUESTION TWO – (15 MARKS)

Describe the most commonly used cross breeding schemes in animal breeding. (15 Marks)

**QUESTION THREE – (15 MARKS)**

Explain the desirable qualities that the animal breeders select for improvement of animals. (15 Marks)

**QUESTION FOUR – (15 MARKS)**

Discuss the role of water in supporting life. (15 Marks)

**QUESTION FIVE – (15 MARKS)**

Outline functions of minerals. (15 Marks)