

University Examinations 2010/2011

SECOND YEAR, SECOND SEMESTER EXAMINATIONS FOR DIPLOMA IN
AGRICULTURAL EDUCATION AND EXTENSION

ANS 0232: ANIMAL BREEDING AND NUTRITION

DATE: APRIL 2011

TIME: 1½ HOURS

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

QUESTION ONE – (30 MARKS)

- (a) There are four general groups of traits in livestock production
 - (i) List the four groups (4 Marks)
 - (ii) Indicate the range of heritability estimate that is to be expected for each group of traits. (4 Marks)
- (b) (i) What is cross breeding? (2 Marks)
 - (ii) List atleast five reasons why cross breeding is usually practiced. (5 Marks)
- (c) (i) Name and describe main sources of water in animals. (6 Marks)
 - (ii) What are the effects of water deprivation in animal (4 Marks)
 - (iii) Name the major macronutrient mineral in animals. (5 Marks)

QUESTION TWO – (15 MARKS)

Discuss the importance of artificial insemination as a tool for genetic improvement in farm animals. (15 Marks)

QUESTION THREE – (15 MARKS)

- (a) Discuss five reasons for feed requirement in animals. (10 Marks)
- (b) Name sources of protein concentrates that can be obtained from animal origin. (5 Marks)

QUESTION FOUR – (15 MARKS)

Discuss the main pathways of gen transmission in a population using dairy cattle as an example. (15 Marks)

QUESTON FIVE – (15 MARKS)

- (a) Describe both feed and animal factors affecting feed intake in animals. (10 Marks)
- (b) Name five sources of additives in animal supplements (5 Marks)