



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF SCIENCE (AGRIBUSINESS MANAGEMENT & TRADE) AND BACHELOR
OF EDUCATION (SCIENCE)

KRM 203: PRINCIPLES OF ANIMAL PRODUCTION

DATE: Thursday, 31st March, 2011

TIME: 8.00 a.m. – 10.00 a.m.

INSTRUCTIONS:

Answer question **ONE** and any other **THREE** questions.

1.
 - a) Differentiate the following terms as used in animal production:
 - i) Animal science and Animal production
 - ii) Epistasis and Pleiotrophy
 - iii) Oestrus and Oestrus cycle
 - iv) Rumination and Ruminal fermentation
 - v) Resistance and Immunity

(10 marks)
 - b) Explain briefly why intensive livestock production systems have become popular in the modern world.

(8 marks)
 - c) What is the significance of protein quality in livestock feeding?

(7 marks)
2.
 - a) What is the role of Oxyntic cells and saliva in animal nutrition?

(3 marks)
 - b) Explain the importance of studying animal nutrition.

(6 marks)
 - c) Explain how water is lost from an animal's body.

(6 marks)

3. a) Discuss the various routes of infection of farm animals by disease causing agents. (5 marks)
- b) Describe four factors which influence the development of disease in an animal. (4 marks)
- c) How can farmers prevent the spread of infectious diseases. (6 marks)
4. a) Discuss any three mating systems in animal breeding. (6 marks)
- b) Define genotype and show how it is related to animal performance (2 marks)
- c) Explain how the environment affects animal performance. (2 marks)
- d) Explain five traits of economic importance in animal breeding. (5 marks)
5. a) What is capacitation? (1 mark)
- b) Explain the role of pituitary gonadotropins in the process of spermatogenesis (4 marks)
- c) Give the various forms of physiological infertility in male animals. (5 marks)
- d) What are the factors that influence the age at which heifers reach puberty? (5 marks)