



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2010/2011
INSTITUTION BASED PROGRAMME (IBP) – AUGUST SESSION
EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION (SCIENCE)
KRM 203: PRINCIPLES OF ANIMAL PRODUCTION

DATE: Wednesday 29th December, 2010

TIME: 11.00 a.m. – 1.00 p.m.

INSTRUCTIONS

Time: 2 hours

Answer question **one** and any other **three** questions.

1.
 - a) Differentiate the following terms as used in animal production: (10 marks)
 - i. Macro-elements and Micro-elements
 - ii. Feedstuff and Nutrient
 - iii. Qualitative trait and Quantitative trait
 - iv. Rumination and Ruminal fermentation
 - v. Intermediate host and Transport host
 - b) Explain briefly why intensive livestock production systems have become popular in the modern world. (8marks)
 - c) Describe the importance of animal agriculture (7marks)
2.
 - a) What is the role of Oxyntic cells and saliva in animal nutrition? (3marks)
 - b) Explain the importance of studying animal nutrition. (6marks)
 - c) Explain how water is lost from an animal's body (6marks)
3.
 - a) Discuss the various routes of infection of farm animals by disease causing agents. (5marks)
 - b) Describe four factors which determine the development of disease in an animal (4marks)
 - c) How can farmers prevent the spread of infectious diseases (6marks)

4.

- a) Discuss any three mating systems in animal breeding. (6 marks)
- b) Define genotype and show how it is related to animal performance (2marks)
- c) Explain how the environment affects animal performance (2marks)
- d) Explain five traits of economic importance in animal breeding. (5marks)

5.

- a) What is capacitation? (1marks)
- b) Explain the role of pituitary gonadotropins in the process of spermatogenesis (4marks)
- c) Give the various forms of physiological infertility in male animals. (5marks)
- d) What are the factors that influence the age at which heifers reach puberty? (5marks)