



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF SCIENCE (AGRICULTURE)

KAP 100 – INTRODUCTION TO ANIMAL SCIENCE

DATE: Friday, 1st April, 2011

TIME: 11.00 a.m. – 1.00 p.m.

INSTRUCTIONS:

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

1. a) Differentiate the following terminologies:-
 - i) Animal science and Animal production
 - ii) Animal breed and Animal type
 - iii) Genotype and Phenotype
 - iv) Non-ruminants and Pseudo-ruminants
 - v) Puberty and Oestrus

(10 marks)
- b) Explain briefly why intensive livestock production systems have become popular in the modern world. (6 marks)
- c) Explain the reasons for maintenance of good health in animals? (5 marks)
- d) What were the consequences of domestication of animals? (4 marks)
2. a) State any five nutrients in animal nutrition. (5 marks)
- b) Give two functions of the nutrients named in (a) above (10 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. Discuss the characteristics of any three of the exotic dairy breeds kept in Kenya. (15 marks)
5. a) Give five traits of economic importance in animals (5 marks)
- b) i) State five hormones that control reproduction in female animals (2.5 marks)
 - ii) State one function of each of the hormones named in (i) above. (2.5 marks)
- c) What are the factors that influence the age at which heifers reach puberty? (5 marks)