



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

INSTITUTIONAL BASED PROGRAMME (IBP) – DECEMBER SESSION

EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION

(SCIENCE)

KRM 301: RUMINANT ANIMAL PRODUCTION

DATE: Thursday, 3rd May, 2012

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) Inbreeding and Linebreeding
 - ii) Ruminant and Pseudo-ruminant
 - iii) Population genetics and Quantitative genetics
 - iv) Rumination and Ruminal fermentation
 - v) Gross energy and Digestible energy

(10 marks)
 - b) Explain the statement: “The phenotypic value of an individual is the combined effect of the genotypic value and the environmental deviation”.

(7 marks)
 - c) Discuss how you would use your knowledge of social behaviour of ruminant animals to improve their management.

(5 marks)
 - d) Give the functions of folds of the Omasum.

(3 marks)
-
2. a) Describe the role of Dairying in the Kenyan economy.

(5 marks)
 - b) With the aid of a diagram, describe the lactation curve in dairy animals.

(10 marks)

3. a) Describe the factors to consider on the choice of a beef production system. (10 marks)
- b) Describe the various types of diet that the majority of beef cattle are reared and fattened on. (5 marks)
4. a) State the factors that favour sheep and goat production in the tropics. (10 marks)
- b) State five factors to avoid when buying sheep and goats. (5 marks)
5. a) State five adaptation features which distinguish camels from other livestock species. (5 marks)
- b) Discuss the recycling of urea in camels. (5 marks)
- c) Discuss feeding behaviour and feed preferences of camels. (5 marks)