



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2013/2014

**FIRST YEAR FIRST SEMESTER EXAMINATIONS FOR BACHELOR
OF SCIENCE IN ANIMAL SCIENCE WITH INFORMATION
TECHNOLOGY
(MAIN CAMPUS)**

AAN 101: INTRODUCTION TO ANIMAL SCIENCE

Date: 26th November, 2013

Time: 8.30 – 10.30am

INSTRUCTIONS:

- Answer ALL QUESTIONS.

Answer ALL Questions

SECTION A: 30 MARKS

1. Differentiate between the following terminologies as used in animal science (5 Marks)
 - a. Polygastric and monogastric animals
 - b. Ranching and nomadic pastoralism
 - c. Prophylactic and curative treatment
 - d. Steaming up and challenge feeding
 - e. Heifer and cockerel
 2. Briefly describe rumen digestion of carbohydrate in ruminants giving the main products of this process (6 Marks)
 3. Animal Science students on their visit to Kenya Animal Genetic Resource centre were presented with a mixed herd of dairy and beef bulls. State the conformational characteristics that will enable you classify the bulls as either beef or dairy (5 marks)
 4. Briefly explain how the following factors affect the choice of a livestock production system.
 - a. Market demand (2 marks)
 - b. Production objective (2 marks)
 - c. Production environment (4 marks)
 - d. Animal species (2 marks)
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5. State the function and site of production of testosterone and oxytocin hormones (4 marks)

SECTION B: 40 MARKS

1. Explain how a dromedary camel is adapted to the northern rangelands of Kenya. (10 marks)
2. Discuss the effects of peri-urban smallholder production to:
 - a. Environment (5 marks)
 - b. Product quality (5 marks)
 - c. Marketing (5 marks)
3. Discuss the concept of negative energy balance in high yielding animals in early lactation with specific emphasis of causes, resultant and management (15 marks)