



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY  
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES  
UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE IN  
AGRIBUSINESS MANAGEMENT**

**SECOND YEAR SECOND SEMESTER 2013/2014 ACADEMIC YEAR**

**REGULAR**

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**COURSE CODE: AAS 3221**

**COURSE TITLE: Principles of Animal Production**

**EXAM VENUE:LR 2**

**STREAM: BSc (Agribusiness Management)**

**DATE:9/12/14**

**EXAM SESSION: 2.00 – 4.00 PM**

**TIME: 2.00 HOURS**

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**Instructions:**

- 1. Answer ALL question in Section A (compulsory) and ANY other TWO questions in Section B.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

**SECTION A [30 MARKS]**

**Answer ALL questions in this Section.**

1. (a) List and give examples of beef production system in East Africa. [3 marks]  
(b) For each of the systems in (a) above, describe the constraints and practical options to overcome them. [5 marks]  
(c) What is dairy value chain? [2 marks]
2. (a) Name three (3) main challenges of dairy development in Kenya. [3 marks]  
(b) Outline effects of genetic make-up and nutrition on growth and development of animals. [7 marks]
3. (a) Outline types of agro-ecological zones in Kenya. [4 marks]  
(b) In each zone in (a) above, give an example of the main land use. [3 marks]  
(c) List ruminant and non ruminant animal species kept in Kenya. [3 marks]

**SECTION B [40 MARKS]**

**Answer any TWO QUESTIONS in this Section.**

4. (a) Describe the relationship between global warming and man activities. [10marks]  
(b) Discuss the main consequences of global warming. [5 marks]  
(c) Describe the main ways in which *Bos indicus* cattle are adapted to hot climates. [5 marks]
5. Briefly outline ten (10) major constraints to the animal industry in Kenya. Suggest ways that could help the country overcome these constraints. [20 marks]
6. (a) Briefly discuss five (5) factors which affect the design of farm structures. [10 marks]  
(b) Discuss using examples function of the farm structures. [10 marks]