



# **MASENO UNIVERSITY**

## **UNIVERSITY EXAMINATIONS 2016/2017**

### **FIRST YEAR FIRST SEMESTER EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURAL ECONOMICS/AGRIBUSINESS MANAGEMENT WITH INFORMATION TECHNOLOGY**

#### **MAIN CAMPUS**

#### **AAB 104: PRINCIPLES OF ANIMAL PRODUCTION**

Date: 30<sup>th</sup> November, 2016

Time: 8.30 - 11.30am

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#### **INSTRUCTIONS:**

- Answer ALL Questions in Section A and any other TWO in Section B.
- Carefully read and follow the instructions contained in the answer booklets provided.
- Marks for each question are indicated in brackets against each question.



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**AAB 104: PRINCIPLES OF ANIMAL PRODUCTION**

**INSTRUCTIONS**

1. Carefully **READ AND FOLLOW THE INSTRUCTIONS** contained in the answer booklet(s) you have been provided with.
2. This paper consists of two sections, Section 'A' and Section 'B'.
3. Answer **ALL** questions in Section A and **ANY TWO** Questions from Section B.
4. Marks for each question are indicated in brackets against the corresponding question.

**SECTION A (30 Marks)**

1. a) Define each of the following terminologies:
  - i. Animal Husbandry (4 mks.)
  - ii. Animal Science (2 mks.)
- b) Outline the significances of domesticated livestock in the welfare of humans in a modern society (8 mks.)
2. a) Define the term Livestock Production System (LPS)? (2 mks)
- b) State the defining characteristics of Ranching as a Livestock Production System (4 mks)

- c) List the advantages and disadvantages of Intensive Livestock Production Systems (6 mks)
3. Define the term Livestock Breed (2 mks)
- b) State the defining characteristics of Beef Cattle breeds (2 mks)

### SECTION B (40 MARKS)

Answer ANY TWO Questions

4. a) Define the term Artificial Insemination (AI) and state its advantages (8 mks)
- b) Discuss embryo transfer, indicating the procedures that are usually followed while undertaking it (12 mks)
5. Giving examples, discuss the following mating systems (4 mks)
- a) Random mating (4 mks)
- b) In-breeding (12 mks)
- c) Cross-breeding (5 mks)
6. a) List the characteristics of good quality milk (5 mks)
- b) State the hygiene practices that should be observed while milking and the sanitation practices recommended for handling milk cans (7 mks)
- c) Discuss the major constraints to the growth and development of the beef industry in Kenya (8 mks)