



(University of Choice)  
**MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**(MMUST)**  
**MAIN CAMPUS**

**UNIVERSITY EXAMINATIONS**  
**2021/2022 ACADEMIC YEAR**

**SECOND YEAR SUPPLEMENTARY EXAMINATION**

**FOR THE DEGREE OF B.Sc. IN:**

**AGRICULTURE AND BIOTECHNOLOGY**

**AGRICULTURE EDUCATION AND EXTENSION**

**AGRIBUSINESS MANAGEMENT AND MARKETING**

**FOOD PROCESSING AND TECHNOLOGY**

**AGRICULTURE ECONOMICS AND RESOURCE MANAGEMENT**

**COURSE CODE: AAP 201**

**COURSE TITLE: PRINCIPLES OF ANIMAL PRODUCTION**

**DATE: 25.07.2022**

**TIME: 8-10AM**

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Instruction to candidates

1. ANSWER ALL QUESTIONS IN SECTION A AND ANY TWO QUESTIONS IN SECTION B

## **SECTION A (30 MKS)**

1.

- a) Describe Feedlot system as applied in beef production system (2 Marks)
- b) Highlight the main difference between large white and landrace breeds of pigs (2 Marks)
- c) Describe four major causes of piglet mortalities (4 Marks)
- d) Describe moulting in hens and explain five factors that influences it in hens (6 Marks)
- e) Describe comfort zone as applied in animal adaptation to environment (2 Marks)
- f) Describe four ways for treatment of mastitis in cows (4 Marks)
- g) Analyse the mating ratio of buck:doe in goats and Ram: ewe in sheep (3 Marks)
- h) Highlight five characteristics of a good layer bird (5 Marks)
- i) Describe 4 methods commonly used for castration in cattle (2 Marks)

## **SECTION B (40MKS)**

1. a) Describe the factors considered in selection of a bull and a cow for breeding (15 Marks)
- b) Describe a basal diet in cattle giving examples (5 Marks)
2. Describe the general routine management practices applied to cattle and highlight the importance of each of the practice (20 Marks)
3. Describe natural mating and artificial insemination as methods of breeding in cattle. Analyze the advantages and disadvantages of each of the method (20 Marks)