



**MURANG'A UNIVERSITY OF TECHNOLOGY**  
**SCHOOL OF AGRICULTURE AND ENVIRONMENTAL**  
**SCIENCE**

DEPARTMENT OF AGRICULTURE

ORDINARY UNIVERSITY EXAMINATION

2023/2024 ACADEMIC YEAR

**SECOND YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR**  
**OF SCIENCE IN AGRICULTURE**

GAN 212 – PRINCIPLES OF ANIMAL PRODUCTION

DURATION: 2 HOURS

**INSTRUCTIONS TO CANDIDATES:**

1. Answer question ONE any other two questions.
2. Mobile phones are not allowed in the examination room.
3. You are not allowed to write on this examination question paper.

**SECTION A – ANSWER ALL QUESTIONS IN THIS SECTION**

**QUESTION ONE (30 MARKS)**

- a) Define breed. (2 marks)
- b) Differentiate between animal production, animal science and animal husbandry. (6 marks)
- c) List two reasons why drying a cow is important. (2 marks)
- d) Describe any two factors affecting forage quality. (2 marks)
- e) Explain any four factors to consider when planning a farm enterprise. (8 marks)
- f) Discuss how the following parameters affects livestock production
  - i. Parasites and pests (5 marks)
  - ii. Climate (5 marks)

**SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION**

**QUESTION TWO (20 MARKS)**

- a) Distinguish flushing from steaming (2 marks)
- b) Outline ten important steps to be followed in clean milk production. (10 marks)
- c) Describe the four phases of a lactating cow. (8 marks)

**QUESTION THREE (20 MARKS)**

Explain the different classes of farm animals based on their digestive system. (20 marks)

**QUESTION FOUR (20 MARKS)**

Explain five potential and constraints facing

- i. Poultry production (10 marks)
- ii. Beef production (10 marks)