



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

DEPARTMENT OF AGRICULTURAL SCIENCE

UNIVERSITY ORDINARY EXAMINATION

2023/2024 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER EXAMINATION FOR SCIENCE IN
AGRICULTURE

GAN212: PRINCIPLE OF ANIMAL PRODUCTION AND FUNCTION
DURATION: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

1. Answer question one and 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. list the distinguishing characteristics of the following breed. (8 marks)
 - i. Charolais
 - ii. Guernsey
 - iii. Aberdeen angus
 - iv. Holstein
- b. Explain five constraints facing animal production in Kenya. (5 marks)
- c. Explain the differences of farm animals based on their digestive systems. (4 marks)
- d. Explain the proper management practices that assist in the production of high-quality milk in dairy animals. (5 marks)
- e. Discuss the role of the livestock in farming systems. (5 marks)
- f. Explain the reasons that most Kenyans have their preference to animals' products that have been organically provided. (5 marks)

SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO (20 MARKS)

- a. Discuss the management of layers from day old chick to 8 weeks of age. (10 marks)
- b. Explain the desired conformation traits in beef animals. (5 marks)
- c. Using relevant examples differentiate between inbreeding and outbreeding. (4 marks)
- d. Explain the term flushing as applied in sheep production. (1 mark)

QUESTION THREE (20 MARKS)

- a. Give five common diseases of poultry and in each state their control. (5 marks)
- b. Outline five factors that led to domestication of livestock. (5 marks)
- c. Discuss five functions of farmers would consider when designing a farm structure. (10 marks)

QUESTION FOUR (20 MARKS)

- a. Explain four by products from goat farming in Kenya. (4 marks)
- b. Highlight four dairy and two meat goat breeds in Kenya. (6 marks)
- c. Explain five opportunities of pig farming in Kenya. (5 marks)
- d. Highlight five challenges of pig farming in Kenya. (5 marks)