



MURANG'A UNIVERSITY OF TECHNOLOGY

SCHOOL OF HOSPITALITY AND TOURISM MANAGEMENT

DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY

UNIVERSITY ORDINARY EXAMINATION

2018/2019 ACADEMIC YEAR

**FIRST YEAR SECOND SEMESTER EXAMINATION FOR, DIPLOMA IN
FOOD SCIENCE TECHNOLOGY**

DFT 055 – CROP AND ANIMAL PRODUCTION

DURATION: 2 HOURS

DATE:

TIME:

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) State four importances of animal production in Kenya (4 marks)
- b) Explain five main challenges facing animal production in Kenya (5 marks)
- c) Discuss four characteristics of extensive system of livestock production (4 marks)
- d) State five main traits considered for breeding of animals (5 marks)
- e) Outline five precautions that should be taken during calving (5 marks)
- f) For each of the following irrigation methods, state an advantage and a disadvantage
 - i. Surface irrigation
 - ii. Sprinkler irrigation
 - iii. Drip irrigation (3 marks)
- g) Explain two biological methods of weed control (2 marks)
- h) State the principles of crop rotation (2 marks)

SECTION B - ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO (20 MARKS)

- a) Discuss five main nutrients required by animals stating the common sources and importance of each to the animals (10 marks)
- b) State six common signs of sickness in animals (6 marks)
- c) State four important factors to consider when sourcing day-old chicks for laying (4 marks)

QUESTION THREE (20 MARKS)

- a) Differentiate between grass family and legume family of crops (3 marks)
- b) Explain the following terms used in crop production (8 marks)
 - i. Row cropping
 - ii. Mixed intercropping
 - iii. Relay intercropping
 - iv. Sole cropping
- c) Discuss each of the following (9 marks)
 - i. Farm yard manure
 - ii. Green manure
 - iii. Composting

QUESTION FOUR (20 MARKS)

- a) Illustrate a three year crop rotation with the following crops: maize, cow peas and cotton (6 marks)
- b) Explain the following post harvest operations (8 marks)
- i. Harvesting
 - ii. Drying
 - iii. Threshing
 - iv. Cleaning
- c) State three important uses of molasses in animal feeding (6 marks)