



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

DEPARTMENT OF AGRICULTURE

TVET EXAMINATION

2023/2024 ACADEMIC YEAR

**FIRST YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN**  
**AGRICULTURAL EXTENSION**

AGR/CU/EXT/CR/04/6/A: FARM PRODUCT PROCESSING

DURATION: 2 HOURS

**INSTRUCTIONS TO CANDIDATE**

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 qualities of good packaging system. (5 marks)
- b. List 7 examples of a flow pattern layout. (3 marks)
- c. State the various factors to consider when designing plastic packaging. (7 marks)
- d. Differentiate between qualitative losses and quantitative losses. (4 marks)
- e. List and explain the various modern methods of preservation. (6 marks)
- f. List and explain the two methods of processing used on herb that are effective for pest control. (5 marks)

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

### **QUESTION TWO (20 MARKS)**

List and explain future strategies in place overcome problem in the food industry. (20 marks)

### **QUESTION THREE (20 MARKS)**

- a. Explain the sanitary requirement of a processing plant. (10 marks)
- b. Explain physical hazards experience in the processing plant. (10 marks)

### **QUESTION FOUR (20 MARKS)**

List and explain the primary and secondary causes of post-harvest losses and waste. (20 marks))