

# MURANG'A UNIVERSITY OF TECHNOLOGY SCHOOL OF AGRICUTURE AND ENVIRONMENTAL SCIENCES

## DEPARTMENT OF AGRICULTURE

# UNIVERSITY ORDINARY EXAMINATION 2023/2024 ACADEMIC YEAR SECOND YEAR FIRST SEMESTER EXAMINATION GAC 211 - ANNUAL CROPS 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.	with two examples in each case, describe tr	e:

I. Difference between warm season and cool season annual crops. (6 marks)

II. Difference between oil crop and tuber crops. (8 marks)

b. Discuss the management of the fall army worm in maize production. (6 marks)

c. Answer the following aspect of growth and development of cereals

I. Importance of a growth key state. (4 marks)

II. Describe the Zadok's cereals growth stages. (6 marks)

# SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION QUESTION TWO (20 MARKS)

Describe characteristics of the following categories of annual crops:

a. Cereal crops. (10 marks)

b. Legume crops. (10 marks)

# **QUESTION THREE (20 MARKS)**

Describe the by-product of rice. (20 marks)

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

Discuss the benefits of sunflower production. (20 marks)