



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

DEPARTMENT OF AGRICULTURE

UNIVERSITY ORDINARY EXAMINATION

2023/2024 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR

OF SCIENCE IN AGRICULTURE

GAC 113 – CROP PRODUCTION 1

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) Discuss five (5) ways in which soil fertility can be lost. (10 marks)
- b) Explain weed control under the following methods:
- i. Cultural control methods (5 marks)
 - ii. Biological control methods (5 marks)
- c) Explain how temperature influence the following:
- i. Plant biochemical reactions (5 marks)
 - ii. Rate of photosynthesis (5 marks)

SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO (20 MARKS)

Describe five fertilizer application methods. (20 marks)

QUESTION THREE (20 MARKS)

Discuss the following topics under land preparation:

- a) Five (5) benefits of land tillage (10 marks)
- b) Five (5) drawbacks associated with land tillage. (10 marks)

QUESTION FOUR (20 MARKS)

Discuss five (5) principles to obtain a good plant/crop stand in the field. (20 marks)