



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

DEPARTMENT OF AGRICULTURE

UNIVERSITY ORDINARY EXAMINATION

2023/2024 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER EXAMINATION

GAC114 - INTRODUCTION TO AGRICULTURE AND
AGROECOLOGY

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. Describe the following factors that affect agriculture production
- i. Capital. (3 marks)
 - ii. Infrastructure. (3 marks)
 - iii. Temperature. (3 marks)
- b. Discuss the negative effects of climate change in agriculture. (6 marks)
- c. Discuss the relationship between the following discipline and agriculture
- i. Agricultural biotechnology. (5 marks)
 - ii. Agricultural chemistry. (5 marks)
 - iii. Agro ecology (5 marks)

SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO (20 MARKS)

With examples, discuss the following topics:

- a. The role of science and research in agriculture. (10 marks)
- b. The role of information, communication and technology (ICT) in agriculture. (10 marks)

QUESTION THREE (20 MARKS)

Discuss any five (5) opportunities for improving agricultural growth and development in Kenya. (20 marks)

QUESTION FOUR (20 MARKS)

Discuss any four (4) agro ecological practises that improves suitable crop production. (20 marks)