



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

DEPARTMENT OF AGRICULTURE

UNIVERSITY POSTGRADUATE EXAMINATION

2023/2024 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER EXAMINATION FOR MASTER
OF SCIENCE IN AGRICULTURE

ACC 604 – CLIMATIC SMART AGRICULTURE APPROACHES AND
TECHNOLOGY

DURATION: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

1. Answer any FOUR questions.
2. Mobile phones are not allowed in the examination room.
3. You are not allowed to write on this examination question paper.

QUESTION ONE (25 MARKS)

Discuss any five climate smart technologies for crop protection. (25 marks)

QUESTION TWO (25 MARKS)

Discuss the following topics under climate smart agriculture projects or programs;

a) Five (5) challenges in implementing climate smart agriculture programmes or projects. (15 marks)

b) Five (5) opportunities in implementing climate smart agriculture programs or projects. (10 marks)

QUESTION THREE (25 MARKS)

Discuss any two principles or pillars of climate smart agriculture. (25 marks)

QUESTION FOUR (25 MARKS)

Briefly discuss five (5) climate smart agriculture technology and practices for sustainable livestock production. (25 marks)

QUESTION FIVE (25 MARKS)

Discuss management of soil organic matter for soil carbon sequestration. (25 marks)