



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

DEPARTMENT OF AGRICULTURE

UNIVERSITY ORDINARY EXAMINATION

2023/2024 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER EXAMINATION

GAC313: INTEGRATED PEST MANAGEMENT

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. Discuss the economic importance of insect pest in agriculture. (5 marks)
- b. With one example in each case, briefly describe the following pests in crop production:
 - i. Nematodes (5 marks)
 - ii. Plant pathogens (5marks)
 - iii. Weeds (5 marks)
- c. Discuss the following principles of integrated pest management
 - i. Prevention and suppression (3 marks)
 - ii. Decision making (3 marks)
 - iii. Non chemical methods. (4 marks)

SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO (20 MARKS)

Discuss the following pest management methods:

- a. Host plant resistance (10 marks)
- b. Enhanced biodiversity (10 marks)

QUESTION THREE (20 MARKS)

Describe the following topics under integrated pest management:

- a. The advantage of integrated pest management. (10 marks)
- b. Describe the challenges in application of integrated pest management. (10 marks)

QUESTION FOUR (20 MARKS)

Discuss the following topics under use of pesticides

- a. Pesticide residues in food crop. (10 marks)
- b. Safety measures during application of pesticides. (10 marks)