



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

DEPARTMENT OF AGRICULTURE

ORDINARY UNIVERSITY EXAMINATION

2023/2024 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR

OF SCIENCE IN AGRICULTURE

GAC 217 – PLANT PATHOLOGY

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) Briefly discuss any two (2) methods of measuring plant diseases. (4 marks)
- b) Explain five (5) importance of plant diseases. (5 marks)
- c) Define the following terms and give two examples in each case;
 - i. Disease symptoms (3 marks)
 - ii. Disease signs (3 marks)
- d) Briefly discuss the terms below and give two (2) examples in each case.
 - i. Polycyclic epidemics (5 marks)
 - ii. Monocyclic epidemics (5 marks)
 - iii. Polyetic diseases (5 marks)

SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO (20 MARKS)

With examples, discuss five (5) principles applied in plant disease management. (20 marks)

QUESTION THREE (20 MARKS)

Discuss the following topics under disease epidemiology:

- a) Two (2) factors affecting development of plant disease epidemics. (10 marks)
- b) Two (2) patterns of plant disease epidemics. (10 marks)

QUESTION FOUR (20 MARKS)

With examples, briefly describe any ten (10) criteria used to classify plant diseases. (20 marks)