



MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2016/2017

**FOURTH YEAR FIRST SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF SCIENCE IN AGRONOMY,
BACHELOR OF SCIENCE IN HORTICULTURE AND BACHELOR
OF SCIENCE IN AGRICULTURAL EXTENSION AND
EDUCATION WITH INFORMATION TECHNOLOGY**

MAIN CAMPUS

AHC 407: PLANT DISEASE CONTROL

Date: 3rd December, 2016

Time: 12.00 - 3.00 pm

INSTRUCTIONS:

- Answer ALL questions in SECTION A and any other TWO questions from SECTION B.



AHC 407: PLANT DISEASE CONTROL

INSTRUCTIONS: ANSWER ALL QUESTIONS IN SECTION A AND ANY TWO QUESTIONS IN SECTION B

SECTION A (30 marks)

Answer all questions from this section

- Q1. Outline shortcomings of 9-principle system of categorizing the strategies that can be used to manage plant disease epiphytotics. (3 marks)**
- Q2. Give any three reasons why the Government of Kenya provides financial and free technical support for plant disease control? (3 mark)**
- Q3. Why is partial resistance the more desirable type of host resistance for effective management of late blight of tomato? (3 marks)**
- Q4. Using relevant examples, state the differences between the common, trade, and chemical name of a fungicide (3 marks)**

- Q5. Which pathogen factors affect the development of plant disease epiphytotics? (4 marks)
- Q6. What is the main difference between an acropetal and basipetal fungicide and which of the two was the first to be discovered? (2 marks)
- Q7. Which human activities have contributed towards the increase in plant disease epidemic? (3 marks)
- Q8. Why is therapy a more challenging undertaking than the use of protective fungicides to manage plant diseases? (2 marks)
- Q9. Give the key practices used to enforce plant quarantine (4 marks)
- Q10. How can a plant disease be eradicated? (3 marks)

SECTION A (40 marks)

Answer any TWO questions from this section

- Q11. Understanding the factors that influence how disease levels increase or decrease over time is one of the most fundamental elements in the control of plant epidemics. Discuss. (20 marks)
- Q12. Design a tabulated scheme for the management of a named disease of cut flowers, underscoring the proposed strategies, principles, practices, and objectives in that order. (20 marks)
- Q13. Write short notes on fungicide resistance giving a detailed account of the mechanisms and factors associated with the phenomenon as well as how the challenge can be managed. (20 marks)