



# UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

FIRST SEMESTER EXAMINATION

FIRST YEAR EXAMINATION FOR THE DEGREE OF MASTERS OF SCIENCE  
(PLANT BREEDING)

ACS 603: CROP PEST MANAGEMENT

**DATE: NOVEMBER 29, 2016**

**TIME: 2:00-4:00**

**INSTRUCTIONS:**

**Answer ANY FOUR Questions**

**QUESTION ONE (25 MARKS)**

- a) Give the scientific names of any five invasive weeds, their origin and spread. (10 marks)
- b) Describe the categories of plant disease symptoms. (10 marks)
- c) Describe the effects of weed management on crop quality. (5 marks)

**QUESTION TWO (25 MARKS)**

- a) Citing specific examples outline the role of climate change on weed species dynamics. (15 marks)
- b) Discuss the economic importance of plant diseases. (10 marks)

**QUESTION THREE (25 MARKS)**

- a) Citing successful examples explain biological management of an invasive weed species. (15 marks)
- b) Describe the role of biotechnology in weed science. (10 marks)

**QUESTION FOUR (25 MARKS)**

- a) You have been provided with a plant tissue with symptoms suspected to be of a fungal pathogen. Describe how you would isolate the pathogen from the tissue . (15 marks)
- b) Describe how you would identify the fungal pathogen based on different characteristics. (10 marks)

**QUESTION FIVE (25 MARKS)**

- a) Discuss the environmental factors that influence development of a disease epidemic. (8 marks)
- b) Outline the classification of Insects. (9 marks)
- c) Describe the measures that have been taken in determining the safety of environment in crop protection. (8 marks)

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