



UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

FIRST SEMESTER EXAMINATION

FIRST YEAR EXAMINATION FOR THE DEGREE OF MASTERS IN CROP
PROTECTION

ACP 602: PLANT VIROLOGY AND NEMATOLOGY

DATE: NOVEMBER 30, 2016

TIME: 2:00-5:00PM

INSTRUCTIONS:

Answer ANY FOUR Questions

QUESTION ONE (25 MARKS)

- a). Suppose you are a lecturer at University of Embu and you have received visitors who want to learn plant virus diseases diagnosis. Describe your discussion points (20 marks)
- b). Insects pests forms the largest and most significant vector group in transmission of virus diseases. Citing relevant examples, discuss this statement (5 marks)

QUESTION TWO (25 MARKS)

Discuss the classification of plant viruses

QUESTION THREE (25 MARKS)

Suppose you have been invited by farmers in Embu County to give a speech on management of viral diseases in cereals, outline your notes giving relevant examples where applicable

QUESTION FOUR (25 MARKS)

- a). Discuss factors that determine the population and distribution of nematodes in the environment (10 marks)
- b). Explain how you would extract plant parasitic nematodes from infected plant debris (5 marks)
- c). Suppose you are invited to a farmers field day to give a talk on the ways in which plant parasitic nematodes can increase their chances of survival in adverse environmental conditions. Describe your discussion points (5 marks)

QUESTION FIVE (20 MARKS)

Citing relevant examples, discuss the integrated management of the lesion nematode in bananas (*Musa spp*) (25 marks)

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