



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

INSTITUTE OF OPEN LEARNING – (IOL)

EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE AND

BACHELOR OF EDUCATION

SBT 205: PHYTOPATHOGENS

DATE: Sunday, 18th December, 2011

TIME: 4.30 p.m. – 6.30 p.m.

INSTRUCTIONS:

Answer **ALL** questions in **Section A** and any **ONE** question in **Section B**. Answers in **Section A** should be written in the spaces provided in the question paper.

SECTION A: SHORT ANSWER QUESTIONS (5 marks each)

1. How would you recognize a diseased plant from a healthy plant?

3. Give a summary of how spores of phytopathogenic fungi are dispersed by animals.

4. a) Name the pathogen that causes crown gall disease (1 mark)
- b) Describe the typical symptoms of the disease (2 marks)
- c) Outline 3 methods used to control the disease (2 marks)
5. State the conditions that favour infection of plants by pathogens.

6. a) Differentiate between pre-and post-emergence damping off of seedlings
(3 marks)

b) Name 2 genera of fungi that cause the damping off disease (2 marks)

7. Why is *striga* a big threat to maize production in Western Kenya?

8. Why were the effects of *Phytonematodes* on the performance of plants ignored for a long time?

SECTION B: ESSAYS (30 MARKS)

1. Give an account of transmission of plants by viruses.
2. Discuss the methods used to control plant bacterial diseases.
3. Write an essay on late blight disease.