



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
AND BACHELOR OF EDUCATION

SBT 205: PHYTOPATHOGENS

DATE: MONDAY, 2ND APRIL 2012

TIME: 2.00 P.M. – 4.00 P.M.

INSTRUCTIONS: Answer *ALL* questions in **Section A** and *ONE* question in **Section B**

Answers in **Section A** should be written in the spaces provided on the question paper.

SECTION A: Short Answer Question (5 Marks each)

1. Define the following terms as used in plant pathology.

- a) Blight
- b) Hypertrophy
- c) Damping off
- d) Susceptible
- e) Infection

2. Write short notes on fungal toxins

3. Outline the mechanisms of disease induction in plants by pathogens.

4. Explain the application of Koch's postulate in disease diagnosis

5. a) Name the pathogen that causes halo blight of beans

(1 mark)

b) Describe the typical symptoms of the disease

(2 marks)

c) Outline three methods used to control the disease

(2 marks)

6. Discuss the transmission of viral pathogens.

7. Briefly discuss the basic life cycle of root knot nematode (*Meloidogyne* spp.)

8. Outline various below-ground symptoms caused by plant parasitic nematodes.

SECTION B: ESSAY (30 Marks)

1. Write an essay on crown gall disease.
2. Discuss the management of plant parasitic nematodes.
3. Write an essay on reproduction and survival in plant pathogenic fungi.