



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

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

SBT 423: DIAGNOSIS AND CONTROL OF PLANT DISEASES

DATE: Tuesday 27th March, 2012

TIME: 11.00 a.m. – 1.00 p.m.

INSTRUCTIONS

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

Section A – Short answer questions (5 Marks each)

1. State the factors that influence the expression of plant disease symptoms.

2. Give an account of the factors that cause wilting in plants.

3. Using an example, describe the typical features of blight symptom.

4. Explain how a transparent sticky tape is used to observe spores of phytopathogenic fungi.

5. Explain the use of host range to identify *formae specialis* of a pathogen.

6. Outline the importance of crop rotation in plant disease control.

7. Give reasons why bacteria are potentially very good plant disease biocontrol agents.

8. Using an example, explain the principle behind "Integrated Plant Disease Control".

SECTION B: ESSAYS (30 Marks)

1. Write an essay on the use of Biochemical markers in plant disease diagnosis.
2. Give an account of the use of physical methods to control crop diseases. Cite examples.
3. Discuss the application of field survey in plant disease diagnosis.