



SUPPLEMENTARY 2009/2010

PAGE 1 OF 2

UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION

**PROGRAMMES: BACHELOR OF SCIENCE IN AGRICULTURAL
EDUCATION, BACHELOR OF SCIENCE IN AGRONOMY
AND BACHELOR OF HORTICULTURE**

YEAR: 3

COURSE CODE: CP 303

TITLE OF PAPER: PLANT PATHOLOGY & DISEASE MANAGEMENT

TIME ALLOWED: TWO (2) HOURS

**INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS
BEGIN EACH QUESTION ON A NEW SHEET**

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY
THE CHIEF INVIGILATOR**

QUESTION 1

- a. Describe the different types of toxins involved in plant disease, and give two examples in each case. (10 Marks)
 - b. Discuss any three control methods that would eradicate or reduce pathogen inoculum. (15 Marks)
- [25 Marks]

QUESTION 2

Discuss biological control in plant disease management [25 Marks]

QUESTION 3.

Discuss any 5 genera of phytopathogenic bacteria. [25 Marks]

QUESTION 4

Explain the following:

- a. Hypovirulence (3 Marks)
 - b. Polycyclic disease (2 Marks)
 - c. dikaryotic cell (3 Marks)
 - d. An alternate host (2 Marks)
 - e. A chlamydospore (3 Marks)
 - f. A Homothallic fungus (3 Marks)
 - g. A coenocytic mycelium (2 Marks)
 - h. A symptom (2 Marks)
 - i. A conidiophore (2 Marks)
 - j. An ooze test (3 Marks)
- [25 Marks]

QUESTION 5

Using common rust on maize, explain the different spore stages of the causal agent.

[25 Marks]