



2nd SEMESTER 2006/2007

PAGE 1 OF 2

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION

PROGRAMME: DIPLOMA IN AGRICULTURE YEAR 2 AND DIPLOMA IN AGRICULTURAL EDUCATION YEAR 2.

COURSE CODE: CP 205 /

TITLE OF PAPER: CROP DISEASES

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

Discuss the different genera of phytopathogenic bacteria.

[25 marks]

QUESTION 2

Discuss the different means by which fungal pathogens overwinter and give an example in each case.

[25 Marks]

QUESTION 3

Distinguish the following:

- a) An autoecious and heteroecious rust (5 marks)
 - b) A homothallic and a heterothallic fungus (5 marks)
 - c) A biotic and an abiotic disease (5 marks)
 - d) A sclerotium and a chlamydospore (5 marks)
 - e) A sexual and an asexual spore (5 marks)
- [25 marks]

QUESTION 4

Describe symptoms of the following diseases:

- a. Early leafspot on groundnuts (5 marks)
 - b. Late leafspot on groundnuts (5 marks)
 - c. Gray leafspot on maize (5 marks)
 - d. Early blight on tomatoes (5 marks)
 - e. Root-knot nematodes on okra. (5 marks)
- [25 marks]

QUESTION 5

Using a disease of your choice:

- i. Name the causal agent. (4 marks)
 - ii. Host range (3 marks)
 - ii. Symptoms (8 marks)
 - iii. Possible control measures (10 marks)
- [25 marks]