



SUPPLEMENTARY 2008/2008

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION

**PROGRAMME: BACHELOR OF SCIENCE IN AGRICULTURAL
EDUCATION YEAR 3 (NEW), BACHELOR OF SCIENCE
IN AGRONOMY YEAR 3 (NEW) AND BACHELOR OF
HORTICULTURE YEAR 3 (NEW)**

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

Discuss a disease of your choice under the following topics:

- a. Name of the disease (2 Marks)
 - b. Causal agent (2 Marks)
 - c. Host range (3 Marks)
 - d. Symptoms and/or signs (8 Marks)
 - e. Possible control measures (10 Marks)
- [25 Marks]**

QUESTION 2

Considering the different stages of disease development, what advantages do many fungi have as plant pathogens compared with bacteria? **[25 Mark]**

QUESTION 3

Discuss the different groups (types) of symptoms caused by bacteria **(25 Marks)**

QUESTION 4

- a) Based on their feeding habits, discuss the different types of root-infecting nematodes, and give an example in each case. (12 Marks)
 - b) With the aid of a diagram, explain the sexual fruiting bodies of Ascomycetes. (13 Marks)
- [25 Marks]**

QUESTION 5

- a. Discuss the mechanical defence systems used by plants against pathogens. (15 Marks)
- b. Explain the gene-for-gene concept (5 Marks)
- c. Name five diseases that can be observed on maize in Swaziland. (5 Marks)

[25 Marks]