

2nd SEMESTER 2011/2012

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN AGRICULTURAL

EDUCATION YEAR 3, BACHELOR OF SCIENCE IN

AGRONOMY YEAR 3, AND BACHELOR OF

HORTICULTURE YEAR 3.

COURSE CODE: CP 304

TITLE OF PAPER: PLANT PATHOLOGY & DISEASE MANAGEMENT

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

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

COURSE CODE CP. 304 (S)

QUESTION 1

Define the following:

(a) A symptom	(3 marks)
(b) A sign	(3 marks)
(c) An alternative host	(3 marks)
(d) An alternate host	(3 marks)
(e) A biotic disease	(3 marks)
(f) An inoculum	(3 marks)
(g) A propagule	(3 marks)
(h) A haustorium	(2 marks)
(i) An oogonium	(2 marks)
	[25 marks]

QUESTION 2

Discuss the different spore stages of a heteroecious rust of your choice.

[25 marks]

QUESTION 3

Describe properties of the following genera of phytopathogenic bacteria and give one example in each case:

(a) Pseudomonas		(8 marks)
(b) Agrobacterium		(7 marks)
(c) Clavibacter		(6 marks)
(d) Xyllela		(4 marks)
		125 marksl

QUESTION 4

Name the causal agents of the following diseases:

		[25 marks]
f.	Smut on sugarcane	(5 marks)
e.	Powdery mildew on cucurbits.	(4 marks)
d.	Early blight on tomatoes	(4 marks)
c.	Gray leafspot on maize	(4 marks)
b.	Late leafspot on groundnuts	(4 marks)
a.	Early leafspot on groundnuts	(4 marks)

QUESTION 5

Discuss in detail a disease of your choice including its management/control.

[25 marks]