

2nd SEMESTER FINAL EXAMINATION 2017/2018

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME: BACHELOR OF SCIENCE IN AGRONOMY LEVEL 2,
BACHELOR OF SCIENCE IN AGRONOMY YEAR 3, BACHELOR
OF SCIENCE IN AGRICULTURAL EDUCATIONS LEVEL 2,
BACHELOR OF SCIENCE IN AGRICULTURAL EXTENSION
LEVEL 2, BACHELOR OF SCIENCE IN HORTICULTURE LEVEL
2, AND BACHELOR OF SCIENCE IN HORTICULTURE YEAR 3

COURSE CODE: CPR206/CP 304

TITLE OF PAPER: PLANT PATHOLOGY AND DISEASE MANAGEMENT

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR QUESTIONS

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

COURSE CODE: CPR206/CP 304 (M)

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QUESTION 1

Distinguish the following:

a)	A fungal and a bacterial leafspot	(6 marks)
b)	Early and late blight of tomato	(6 marks)
c)	An autoecious and a heteroecious rust	(6 marks)
d)	Symptoms of rust on beans and halo blight also on beans	(7 marks)
		[25 marks]

QUESTION 2

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

(a)	Erwinia	(9 marks)
(b)	Xanthomas	(7marks)
(c)	Streptomyces	(9 marks)
		[25 marks]

QUESTION 3

(a) Outline the differences between biotrophs and necrotrophs.	(10 marks)	
(b) Describe symptoms of sugarcane smut on sugarcane.	(10 marks)	
(c) Describe the symptoms of bacterial wilt caused by Ralstonia solanecearum on a tomato		
plant.	(5 marks)	
	[25 Marks]	

QUESTION 4

Discuss the different types of plant viruses based on their transmission by aphids.

[25 Marks]

QUESTION 5

Discuss the Disease triangle and the significance of its different components in disease development. [25 Marks]