



2ND SEM. 2004/2005

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME: **B.SC. IN AGRICULTURE YEAR 4 (CP AND
HORTICULTURE OPTIONS)**

COURSE CODE: **CP 404** ✓

TITLE OF PAPER: **PLANT PATHOLOGY**

TIME ALLOWED: **TWO (2) HOURS**

INSTRUCTIONS: **ANSWER ANY FOUR (4) QUESTIONS**

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THE CHIEF INVIGILATOR**

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS**QUESTION 1**

- a) Distinguish between an obligate parasite and a facultative saprophyte. Give an example of each. (5)
 - b) A previously unknown pathogen is suspected to cause disease. Explain how you can prove that the pathogen is indeed the cause of the disease (20)
- (25)**

QUESTION 2

- a) Define inoculum and its different types (5)
 - b) Explain the different ways by which pathogens penetrate their hosts (20)
- (25)**

QUESTION 3

Discuss the role of each of the elements that lead to the development of a disease epidemic **(25)**

QUESTION 4

Discuss how plants use structural defence against pathogens **(25)**

QUESTION 5

- a) List the five types of spores that are produced by some rusts (5)
 - b) Discuss the disease cycle of *Puccinia graminis* f.sp. *tritici* (20)
- (25)**