



2ND SEM. 2006/2007

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME: B.SC. IN AGRICULTURE YEAR 5
(HORTICULTURE OPTION)**

COURSE CODE: HORT 507

TITLE OF PAPER: HORTICULTURAL CROP PROTECTION

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

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BY THE CHIEF INVIGILATOR**

QUESTION 1

- a) Explain why *Plutella xylostella* develops resistance to pesticides so quickly? [5]
- b) Discuss IPM strategies that can be employed to minimize the effects of the Diamond Back Moth on cabbage in Swaziland. [20]
- [25]

QUESTION 2

- a) Which nozzle would you use to spray mancozeb (Dithane M45) on tomato and why? [5]
- b) What determines the droplet size of a spray? [5]
- c) What is harvest interval? Why should it be observed? [5]
- d) Differentiate between protective and curative fungicides. Give an example of each and the pathogen it is applied against. [10]
- [25]

QUESTION 3

- a) In the field what often indicates the presence of nematodes? [5]
- b) Discuss the direct and indirect effects of nematodes on plants. [20]
- [25]

QUESTION 4

Discuss biological control in crop pest management. Support your discussion with examples. [25]

QUESTION 5

Discuss the steps and calculations in calibrating a knapsack sprayer. [25]