



2ND SEM. 2006/2007

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

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

COURSE CODE: CP 506

TITLE OF PAPER: CROP PROTECTION TECHNOLOGY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

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BY THE CHIEF INVIGILATOR**

QUESTION 1

Using the red locust as your example, illustrate the role of environmental factors in a crop pest problem. [25]

QUESTION 2

- a) Describe five (5) pesticide formulations and give an example for each. [15]
- b) Discuss the factors that can affect the spray application rate. [10]
[25]

QUESTION 3

Common scab *Streptomyces scabies* is one of the most important diseases of potato in Swaziland. Discuss how you would apply IPM strategies to minimize the effect of the disease. [25]

QUESTION 4

- a) Explain the importance of using the "Economic Threshold" in crop protection. [5]
- b) Discuss how you would assess a crop for general health and for specific diseases. [20]
[25]

QUESTION 5

Differentiate between:

- a) Quarantine pests and regulated non quarantine pests. [5]
- b) A pest-free area and a pest-free place of production. [5]
- c) Pest risk assessment and pest risk analysis. [5]
- d) Disease incidence and disease severity. [5]
- e) Plant parasitic and non-plant parasitic nematodes [5]
[25]