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2nd SEMESTER 2005/2006

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION

PROGRAMME: BACHELOR OF SCIENCE IN AGRICULTURE YEAR 5 (CROP PRODUCTION OPTION)

COURSE CODE: CP 506

TITLE OF PAPER: CROP PROTECTION TECHNOLOGY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER QUESTION ONE (1) AND ANY OTHER THREE (3) QUESTIONS

BEGIN EACH QUESTION ON A NEW SHEET

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QUESTION 1

(This question is compulsory)

a) Briefly explain the meaning of each of the following and give an example of each:-

- i) Vector
- ii) Exotic pest
- iii) Occasional pest
- iv) R pest
- v) Perennial pest

[13 Marks]

b) Discuss the pros and cons of breeding for disease resistance.

[12 Marks]

QUESTION 2

a) Name FIVE (5) pests of field maize and describe how each can be identified.

[10]

b) Select any one of the pests named above and give FIVE different methods that can be specifically used to control it.

[15]

[25 Marks]

QUESTION 3

Integrated Pest Management (IPM) is now the universally accepted method of dealing with pest problems in the world. Discuss whether this statement is justified or not.

[25 Marks]

QUESTION 4

Farmer A is about to lose his contract with a supermarket that he has been supplying with spinach. Of late his spinach has little holes that are light grey in colour with brownish borders. Other farmers have advised Farmer A that he has a problem with insect pests that are feeding on his spinach. As a result of this advice, Farmer A has invested a lot of money in buying insecticides to spray his spinach but the problem still persists. As an Extension Officer, you have been approached by this farmer seeking advice about his problem. What is wrong with the spinach? What advice would you give to Farmer A. How would scouting have helped the farmer not to waste his money buying irrelevant pesticides? **[25 Marks]**

QUESTION 5

Discuss physical and chemical pest control. Which of these control methods do you prefer and why. **[25 Marks]**