

2nd SEM. 2007/2008

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMMES: BACHELOR OF SCIENCE IN AGRONOMY YEAR 2,
BACHELOR OF SCIENCE IN HORTICULTURE YEAR 2, AND
BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION
YEAR 2

TITLE OF PAPER: CROP PEST MANAGEMENT

COURSE CODE: CP 204

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: 1. THIS PAPER HAS FIVE (5) QUESTIONS

2. ANSWER ANY FOUR (4) QUESTIONS.

3. ALL QUESTIONS CARRY EQUAL MARKS OF 25 AND MARKS FOR SUBSECTIONS ARE GIVEN IN BRACKETS

WHERE APPLICABLE.

THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN GRANTED BY THE CHIEF INVIGILATOR

QUESTION 1

Using specific examples briefly describe the following orders of insect of agricultural importance in Swaziland.

a.	Orthoptera	(5 marks)
b.	Homoptera	(5 marks)
c.	Coleoptera	(5 marks)
d.	Lepidoptera	(5 marks)
e.	Hymenoptera	(5 marks)

(25 MARKS)

QUESTION 2

- a. What often indicates the presence of nematodes in the field? (5 marks)
- b. Discuss the effects of nematodes on plant growth and possible cultural control measures. (10 marks)
- c. What are the possible beneficial and detrimental activities of insects in Swaziland? (10 marks) (25 MARKS)

QUESTION 3

Differentiate between the following:

		(25 MARKS)
e.	Economic pest and Key pest	(5 marks)
d.	Potential pest and Major pest	(5 marks)
c.	Serious pest and minor pest	(5 marks)
b.	Pest load and pest spectrum	(5 marks)
a.	Pest and pest complex	(5 marks)

QUESTION 4

a. Define the following as they relate to pest population dynamics

i. Economic damage	(5 marks)
ii. Economic injury level	(5 marks)
iii. Economic threshold	(5 marks)

b. Briefly describe five (5) cultural practices that a grower can apply to minimize insect pest populations in his/her field. (10 marks)

(25 MARKS)

QUESTION 5

a. What is biological control? (4 marks)

b. Explain the significance of the following natural enemies in pest control:

i. Parasites (4 marks)
ii. Parasitoids (4 marks)
iii. Predators (4 marks)

c. Briefly explain the following types of pesticidal formulations:

i. Granules (3 marks)
ii. Wettable powder (3 marks)
iii. Bait (3 marks)
(25 MARKS)