



**2<sup>nd</sup> SEMESTER 2008/2009**

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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 QUESTION 1 AND ANY OTHER THREE (3) QUESTIONS**
  - 3. ALL QUESTIONS CARRY EQUAL MARKS OF TWENTY FIVE (25). 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**

- (a) Briefly explain what each of the following are and give an example in each case:-
- (i) Pest (3)
  - (ii) Parasitoid (3)
  - (iii) Synergist (3)
  - (iv) Pesticide resistant pest (3)
  - (v) Pesticide Cross Resistance (3)

**(25 Marks)****Question 2**

Citrus is one of the most important export crops in Swaziland. Answer the following questions on citrus pest management:-

- (a) Give names of five pests of citrus in Swaziland. (5)
- (b) How would you identify each of the pests you have named? (10)
- (c) What damage does each of these listed pests cause on the plant? (10)

**(25 marks)****Question 3**

Which crop(s) does each of the following pests affect and what damage does it cause?

- (a) African bollworm (5)
- (b) Cutworm (5)
- (c) Green stinkbug (5)
- (d) Diamondback moth (5)
- (e) CMR beetles (5)

**(25 Marks)****Question 4**

- (a) What is the difference between rats and mice? (10)
- (b) What are the main things that one should take into account when controlling rats? (5)
- (c) Which are the two common rat pest species in Swaziland? (2)
- (d) How can you tell the two common rats in (c) above apart? (8)

**(25 Marks)**

**Question 5**

- (a) What is biorational pest control? (10)
- (b) What are semiochemicals? (10)
- (c) Explain why spidermites seem to always bother vegetable growers. (5)

**(25 marks)**