



2nd SEMESTER 2009/2010

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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

Instruction:- Answer Question 1 and any other three (3) questions

Question 1

(a) Briefly explain what each of the following are and give an example in each case:-

- (i) Occasional pest (3)
- (ii) Economic Threshold (3)
- (iii) R pest (3)
- (iv) Pesticide resistance (3)
- (v) Biorational pest control (3)

(b) Briefly describe cultural pest control. (10)

(25 Marks)

Question 2

(a) Give names of five pre-harvest pests of the maize plant in Swaziland. (5)

(b) How would you identify each of the pests you have named in (a) above? (10)

(c) What damage does each of the pests above cause on the plant? (10)

(25 marks)

Question 3

Which crops do the following pests affect and what damage do they cause?

- (a) Spiny brown bug (5)
- (b) Armyworm (5)
- (c) Larger grain borer (5)
- (d) False codling moth (5)
- (e) Australian bug (5)

(25 Marks)

Question 4

(a) What is the difference between maize stem borer and the sorghum stem borer

(10)

(b) How is the maize leaf hopper controlled in Swaziland? (5)

(c) Name aphid species which affect cereals in Swaziland and how you can tell them apart.

(10)

(25 Marks)

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Question 5

Describe biological control and give examples of the different organisms and methods that are used

(25 marks)