



SUPPLEMENTARY 2005/2006

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION

**PROGRAMME: BACHELOR OF SCIENCE IN AGRICULTURE YEAR 4 (CROP
PRODUCTION AND HORTICULTURE OPTIONS) AND
BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION
(YEAR 4)**

TITLE OF PAPER: AGRICULTURAL ENTOMOLOGY

COURSE CODE: CP 405

TIME ALLOWED: TWO (2) HOURS

**INSTRUCTIONS: ANSWER QUESTION 1, WHICH IS COMPULSORY AND
ANY THREE (3) OTHER QUESTIONS**

**THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN
GRANTED BY THE INVIGILATORS**

INSTRUCTIONS: ANSWER QUESTION 1, WHICH IS COMPULSORY AND ANY THREE (3) OTHER QUESTIONS

QUESTION 1

Draw a table similar to the one shown below in your answer booklet. For each of the families indicated, give an example of a pest and crop damaged by the pest named.

Family	Pest name	Crop infested
1. Gelechiidae		
2. Pyralidae		
3. Tortricidae		
4. Formicidae		
5. Scarabaeidae		
6. Coccinellidae		
7. Melyridae		
8. Meloidae		
9. Curculionidae		
10. Papilionidae		
11. Elateridae		
12. Diaspididae		
13. Margarodidae		
14. Plutellidae		
15. Thripidae		
16. Tephritidae		
17. Cecidomyiidae		
18. Tenebrionidae		
19. Bruchidae		
20. Bostrichidae		

[Total marks = 40]

QUESTION 2

Using named examples, discuss the economic importance and control of the following:

- i. Mollusca (5)
- ii. Nematoda (5)
- iii. Rodents (5)
- iv. Plant weeds (5)

[Total = 20]

QUESTION 3

- a. What is insecticide resistance? Discuss this phenomenon and its implications in pest control. (15)
 - b. Briefly explain how the development of insecticide resistance can be minimised. (5)
- [Total = 20 marks]

QUESTION 4

Using named examples, discuss the types of damage caused by plant miners and borers.
[Total = 20 marks]

QUESTION 5

Differentiate between the following:

- i. Predator and parasitoid (7)
- ii. Indigenous and adventive pest (6)
- iii. Ants and termites (7)

[Total = 20 marks]

QUESTION 6

Using named examples; discuss the diversity in mouthparts observed in the Class Insecta and how they have contributed to the importance of this class in agriculture.

[Total = 20 marks]