

2ND SEM. 2006/2007

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMMES: BACHELOR OF SCIENCE IN AGRICULTURAL

EDUCATION YEAR 4 AND BACHELOR OF SCIENCE IN

AGRICULTURE YEAR 4 (CROP PRODUCTION AND

HORTICULTURE OPTIONS)

TITLE OF PAPER: AGRICULTURAL ENTOMOLOGY

COURSE CODE: CP 405

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: 1. THIS PAPER HAS SIX (6) QUESTIONS

2. ANSWER ANY FIVE (5) QUESTIONS.

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

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INSTRUCTIONS: 1. THIS PAPER HAS SIX (6) QUESTIONS 2. ANSWER ANY FIVE (5) QUESTIONS.

Question 1

Describe in detail, a pest from each of the following families:

i.	Diaspididae	(5)
ii.	Tephritidae	(5)
iii.	Gelechiidae	(5)
iv.	Tetranychidae	(5)
v.	Tenebrionidae	(5)
		[Total = 20 marks]

Question 2

Using the nitrogen cycle, describe how an ecosystem functions as a unit, with energy and nutrients flow between named biotic and abiotic components.

[Total = 20 marks]

Question 3

Name the non-harvestable components of plant biodiversity in agro-ecosystems and discuss their ecological value.

[Total = 20 marks]

Question 4

Describe steps followed during the implementation of a Biological control programme.

[Total = 20 marks]

Question 5

What threats do agricultural activities pose to invertebrates? Discuss these with special reference to insects.

[Total = 20 marks]

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Question 6

Using named examples, differentiate between the following:

i.	Primary and secondary succession	(5)
ii.	Intraspecific and interspecific competition	(5)
iii.	Total Population Management and Integrated Pest management	(10)

[Total = 20 marks]