



1ST SEM. 2004/2005

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

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

COURSE CODE: **CP 405**

TITLE OF PAPER: **AGRICULTURAL ENTOMOLOGY**

TIME ALLOWED: **TWO (2) HOURS**

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

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BY THE CHIEF INVIGILATOR**

INSTRUCTIONS:- ANSWER QUESTION ONE AND ANY OTHER THREE
QUESTIONS

QUESTION 1

(This question is compulsory)

To which insect Families do the following organisms belong?

1. Fruit flies
2. Larger grain borer
3. House fly
4. Whiteflies
5. Assassin bugs
6. Cutworms
7. Cereal stem borers
8. Green vegetable bug
9. Locusts
10. Red scale insects
11. Honey bees
12. Cotton stainers
13. Australian bugs
14. Spotted maize beetles
15. Dusty surface beetles
16. Silverfish
17. Wireworms
18. Dung beetles
19. Aphids
20. Citrus thrips

[40 Marks]

QUESTION 2

Name any FIVE plant diseases that are transmitted by insects. Which insects transmit EACH of these diseases and what are the disease symptoms?

[20 Marks]

QUESTION 3

Name and briefly describe FIVE different ways in which insects can be controlled.

Give examples, where possible, to illustrate each method of pest control.

[20 Marks]

QUESTION 4

There are more beneficial insects than those that are destructive. Give names of TWO examples of the insects that are beneficial as well as the Families to which EACH these insects belong. However, the names such beneficial insects should correspond to the list below:-

1. Plant pollinators
2. Predators
3. Providers of products on which industries are based
4. Decomposers
5. Parasitoids

[20 Marks]

QUESTION 5

Explain how and why arachnids are economically important as crop pests in agriculture. In your discussions include FIVE different examples of economically important arachnids as well as why they are economically important.

[20 Marks]