



**1<sup>ST</sup> SEM. 2004/2005**

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**UNIVERSITY OF SWAZILAND**

**FINAL EXAMINATION PAPER**

**PROGRAMME:** DIPLOMA IN AGRICULTURE YEAR 2 AND  
DIPLOMA IN AGRICULTURAL EDUCATION  
YEAR 2

**COURSE CODE:** CP 203

**TITLE OF PAPER:** INTRODUCTORY ENTOMOLOGY

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

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

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**INSTRUCTIONS: ANSWER FOUR QUESTIONS. QUESTION ONE (1) IS COMPULSORY.**

**QUESTION 1**

- a) Define the term "Pest." [ 2 marks]
- b) Name five (5) different types of agricultural pests [ 5 marks]
- c) In what ways may an insect cause damage to crop plants or stored products? [10 marks]

II) Give the names of at least One example of EACH of the following Arthropoda. Then clearly explain how these classes are different one from another.

- a) Crustacea
- b) Diplopoda
- c) Arachnida
- d) Chilopoda
- e) Hexapoda (Insecta) [23 marks]

[40marks]

**Question 2**

Select TWO Orders of insects from **Ametabola**, give examples in each order and then describe how each of these orders can be identified.

[20marks]

**Question 3**

Give the name of any **moth that you know is economically important as a crop pest**. How would you identify this pest and what damage does it cause in which crop(s)?

[20marks]

**Question 4**

Make a well-labelled sketch of the structure of a compound eye or an insect's **Ommatidium**. Mention the function of each part labelled.

[20 marks]

**Question 5**

Distinguish clearly between the following pairs.

- a) Ecdysis and metamorphosis
- b) Orthoptera and Thysanoptera
- c) Ovipositor and Aedeagus
- d) Closed circulation and open circulation
- e) Elytra and Hemelytra

**[20marks]**

**[100 marks]**