



**1<sup>st</sup> SEMESTER 2005/ 6**

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**UNIVERSITY OF SWAZILAND  
FINAL EXAMINATION PAPER**

**PROGRAMME                      DIPLOMA IN AGRICULTURAL EDUCATION  
AND AGRICULTURE**

**COURSE CODE:    CP 203**

**TITLE OF PAPER: INTRODUCTORY ENTOMOLOGY**

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

**INSTRUCTIONS:- ANSWER QUESTION ONE (1) AND ANY OTHER  
THREE (3)**

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BY THE CHIEF INVIGILATOR**

**INSTRUCTIONS:- ANSWER QUESTION ONE (1) AND ANY OTHER  
THREE (3)**

**QUESTION 1**

**(This question is compulsory)**

Briefly explain what EACH of the following mean:-

- (a) Chitin
- (b) Ecdysis
- (c) Ecological niche
- (d) Camouflage
- (e) DNA
- (f) Trophic level
- (g) Univoltine
- (h) Metamorphosis
- (i) Parthenogenesis
- (j) Diapause
- (k) Habitat
- (l) Malpighian tubules
- (m) Cuticle
- (n) Maxilla
- (o) Naiad
- (p) Stadium
- (q) Tympanum
- (r) Pleuron
- (s) Pronotum

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- (t) Holometabolous
- (u) Coxa
- (v) Saprophyte
- (w) Puparium
- (x) Haltere
- (y) Costa

**(25 Marks)**

### **Question 2**

- (a) Describe with the aid of diagrams, the external features of the larva, pupa and imago (adult) of a named insect. **(15 Marks)**
  - (b) How does this insect breathe and obtain food when it is (i) a larva and (ii) an adult? **(10 Marks)**
- (25 Marks)**

### **Question 3**

Make a labelled drawing of the side view of a grasshopper (or locust or cockroach). Give an account of the life history and economic importance of this insect. **(25 Marks)**

### **Question 4**

List 5 different types of insect antennae and make labelled drawings showing each of these. Give an example of an insect with of these. **(25 Marks)**

**Question 5**

Name of any 5 insect Orders and also give an example of an insect.

How can each of these Orders be identified?

**(25 Marks)**