



1ST SEM. 2006/2007

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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: INTRODUCTION TO 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 QUESTION 1, WHICH IS COMPULSORY AND ANY OTHER THREE (3) QUESTIONS

**Question 1
(This question is compulsory)**

(i) Give examples of the following insect orders:

- a) Odonata
- b) Thysanoptera
- c) Protura
- d) Diptera
- e) Heteroptera
- f) Dermaptera
- g) Thysanura
- h) Collembola
- i) Ephemeroptera

(9 marks)

(ii) Name EACH of the following and also name the insects they are found in:

- a) Three (3) different types of pupae (6)
- b) Four different types of larvae (8)
- c) Two types of mouthparts (2)

[25 marks]

Question 2

(i) What is the difference between the following:

- a) Hexapoda and Arachnida
- b) Paurometabolous and Holometabolous insects
- c) Ovipositor and Aedeagus
- d) Filiform and moniliform antennae
- e) Open-circulation and closed-circulation

(20)

- ii) (a) Name Four different ways in which insect legs are adapted (4)
- (b) Define Ametabola (1)

[25marks]

Question 3

(i) Give three characteristics of each of the following arthropoda:

- a) Crustacea
- b) Arachnida
- c) Diplopoda
- d) Hexapoda
- e) Chilopoda

(5)

ii) (a) Name FIVE ways in which insects are beneficial to mankind

(5)

(b) Name FOUR insect Orders that do not undergo metamorphosis and One insect Order that undergoes complete metamorphosis

(5)

[25 marks]

Question 4

How do parasitic nematodes spread from one plant to another and how would you control them?

[25 marks]

Question 5

Make a well-labelled sketch of the structure of a compound eye.

[25 marks]