



SUPPLEMENTARY 2004/2005

PAGE 1 OF 3

UNIVERSITY OF SWAZILAND

SUPPLEMENTARY 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**

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED
BY THE CHIEF INVIGILATOR**

INSTRUCTIONS: ANSWER QUESTION (ONE) AND ANY OTHER 3 (THREE) QUESTIONS

QUESTION 1 (COMPULSORY)

(a) Briefly explain what EACH of the following are:-

- (i) Trachea
- (ii) Tergum
- (iii) Tympanum
- (iv) Clypeus
- (v) Femur
- (vi) Exuvium
- (vii) Costa
- (viii) Pedipalp
- (ix) Univoltine
- (x) Diapause
- (xi) Stylus
- (xii) Proleg
- (xiii) Aestivation
- (xiv) Poikilothemic
- (xv) Pedicel
- (xvi) Ootheca
- (xvii) Sternum
- (xviii) Chorion
- (xix) Chordotonal sensillum
- (xx) Eclosion hormone

[20 marks]

(b) Give a common name or an example of EACH of the following:

- (i) Protista
- (ii) Mollusca
- (iii) Ephemeroptera
- (iv) Nematoda
- (v) Pteridophyta
- (vi) Thysanura
- (vii) Metazoa
- (viii) Mallophaga
- (ix) Arachnida
- (x) Gastropoda

[10 marks]

(c) What insect Orders do the following belong to?

- (i) Cockroaches
- (ii) Stoneflies
- (iii) Locusts
- (iv) Aphids
- (v) Armyworms
- (vi) Mosquitoes
- (vii) Damselfies
- (viii) Bristletails
- (ix) Fleas
- (x) Beetles

[10 marks]

[40 marks]

QUESTION 2

Make a well labelled sketch of the alimentary canal of an insect. Give the functions of EACH part labelled

[20 marks]

QUESTION 3

How are insects classified? Give 10 examples to illustrate your points

[20 marks]

QUESTION 4

Explain how insects develop

[20 marks]

QUESTION 5:

What physiological structures do insects possess that have allowed them to adapt well to their environment?

[20 marks]

[100 marks]