

SUPPLEMENTARY 2006/2007

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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:

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) Explain	briefly	y each of the following:-	
_	(a)	Ecology	
	(b)	Habitat	
	(c)	Diapause	
	(d)	Species	
	(e)	Naiad	
	(f)	Haemocytes	
	(g)	Pheromone	
	(h)	Median caudal filament	
	(i)	Pleural membrane	
	(j)	Ecdysis	
			[10 marks]
(ii) How w	ould y	ou identify insects from the following insect Orde	ers?
(a)	H	omoptera	
(b)	H	ymenoptera	
(c)	Is	optera	
(d)	D	iptera	
(e)	O	rthoptera	
			[10 marks]
(iii) Define	e the fo	llowing parts of an insects	
	(k)	Tympanum	
	(1)	Coxa	
	(m)	Labrum	
	(n)	Antennae	
	(o)	Cerci	
			(5)
			[25 marks]

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Question 2

(i)	What is	the	difference	between	the	following:-
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- (a) Chilopoda and Diplopoda
- (b) Ant and Termite
- (c) Stalkborer and Spotted borer
- (d) Crustacea and Hexapoda
- (e) Cabbage aphid and False cabbage aphid

(20)

- (ii) Give examples of insects with the following types of antennae:
 - (a) Geniculate
 - (b) Aristate
 - (c) Filiform
 - (d) Maniliform
 - (e) Pectinate

(5)

[25 marks]

Question 3

- (i) Give five ways and examples in which insects are an enemy to mankind? (15)
- (ii) Draw a well labeled sketch of a male or female reproductive system of an insect (10)

[25 marks]

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Question 4

- (i) What parts of the insect does it use to:
 - (a) Hear sounds
 - (b) Get rid of waste products from the body
 - (c) See objects
 - (d) Detect substances that smell
 - (e) Lay eggs
 - (f) Produce viable eggs even when fertilization has not occurred
 - (g) Grow in size in spite of the restrictions by the exoskeleton
 - (h) Get food digested before it gets absorbed
 - (i) Get oxygen to every part of the body when it is needed
 - (j) To fight foreign bodies in the insects body.

(20)

(ii) What is hierarchy of the common stalkborer in the animal kingdom?

(5)

[25 marks]

Question 5

How do ticks reproduce and grow?

[25 marks]