

UNIVERSITY OF SWAZILAND SUPPLEMENTARY EXAMINATION PAPER

PROGRAMMES:

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION YEAR 2
BACHELOR OF SCIENCE IN HORTICULTURE YEAR 2

COURSE CODE: CP 203

TITLE OF PAPER: AGRICULTURAL ENTOMOLOGY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER ALL QUESTIONS

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Question 1 (20 Marks)

Name five unique features of insects and five features they share with other arthropods

	Question 2 (20 Marks)	
Fo	or each of the insect orders below provide the following:	
	1. The original Latin or Greek meaning of the Order name	(1mark)
	2. The common of the Order	(1mark)
	3. Two key features of insects belonging to the Order	(2mark)
	a) Orthoptera	(4 Marks)
	b) Dermaptera	(4 Marks)
	c) Phthiraptera	(4 Marks)
	d) Diptera	(4 Marks)
	e) Mantodea	(4 Marks)
	Question 3 (20 Marks)	
De	escribe the following structures and discuss their role in insect physiology:	
a)	Peritrophic membrane	(10 Marks)
b)	Salivary gland	(10 Marks)
	Question 4 (20 Marks)	
De	scribe the functions of the following arthropod structures	
a)	Basement membrane	(2 Marks)
b)	Chitin in the insect integument	(2 Marks)
c)	Cephalothorax of a spider	(2 Marks)
d)	Elytra	(2 Marks)
e)	Tympanum	(2 Marks)
f)	Cerci	(2 Marks)
g)	Spiracles	(2 Marks)
h)	Mandible of a grasshopper	(2 Marks)
i)	Halter of a house fly	(2 Marks)
j)	Fossorial legs	(2 Marks)

Question 5 (20 Marks)

a) Name five common situations that lead to pest outbreaks

(5 Marks)

b) Explain how the situations you mentioned on Q5 above lead to a pest outbreak

(15 Marks)