

2nd SEMESTER 2009/2010

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UNIVERSITY OF SWAZILAND FINAL EXAMINATION PAPER

PROGRAMMES: BACHELOR OF SCIENCE IN AGRONOMY YEAR 2,

BACHELOR OF SCIENCE IN HORTICULTURE YEAR 2, AND BACHELOR OF SCIENCE IN AGRICULTURAL

EDUCATION YEAR 2

TITLE OF PAPER:

AGRICULTURAL ENTOMOLOGY

COURSE CODE:

CP 203

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTIONS:

- THIS PAPER HAS FIVE (5) QUESTIONS 1.
- 2. **ANSWER QUESTION 1 AND ANY OTHER** THREE (3) QUESTIONS
- ALL QUESTIONS CARRY EQUAL 3. MARKS OF TWENTY FIVE (25). MARKS FOR SUBSECTIONS ARE GIVEN IN BRACKETS WHERE APPLICABLE

THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN GRANTED BY THE CHIEF INVIGILATOR

COURSE CODE: CP 203 (M) PAGE 2 OF 4 Instruction: Answer Question 1 and any other three (3) questions Question 1 (Compulsory) (a) What do the following terms mean? (10)(i) Naiad (ii) Ootheca (iii) Nymph (iv) Multivoltine (v) Parthenogenesis (b) How can the following important insect Orders be identified? (10)(i) Diptera (ii) Lepidoptera Coleoptera (iii) (iv) Orthoptera (v) Homoptera (c) Name FIVE ways in which CULTURAL PEST CONTROL can be applied (5) (25 Marks) Question 2 Give one example of an insect in each of the following insect Ordes:- (1 Mark each) (i) Collembola (ii) Thysanura (iii) Ephemeroptera Odonata (iv)

(v)

(vi)

(vii)

Plecoptera

Dermaptera

Orthoptera

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(viii)	Phasmida		eas - S
(ix)	Mantodea		
(x)	Isoptera		
(xi)	Psocoptera		
(xii)	Blattaria		
(xiii)	Thysanoptera		
(xiv)	Heteroptera		
(xv)	Homoptera		
(xvi)	Anoplura		
(xvii)	Mallophaga		
(xviii)	Coleoptera		
(xix)	Lepidoptera		
(xx)	Neuroptera		
(xxi)	Diptera		
(xxii)	Hymenoptera		
(xxiii)	Siphonaptera		
(xxiv)	Mecoptera		
(xxv)	Trichoptera		

(25 Marks)

COURSE CODE: CP 203 (M) PAGE 4 OF 4 **Ouestion 3** Name FIVE pests of each of the following:-(a) Stored cereals (5) Cereals (in the field) (b) (5) Beans (5) (c) (d) Cabbages (5) Citrus (5) (e) (25 Marks) Question 4 Briefly explain what each of the following are and give an example to illustrate (a) your answer:-Legislative Pest Control (i) (10)(ii) **Biorational Pest Control** (10)(b) What is the difference between biological pest control and natural pest control? (5) (25 Marks) Question 5 What are the differences between the following: (a) Apposition and superposition eyes (5) (b) Organophosphate pesticides and carbamate pesticides (5) Rice weevil and the maize weevil (c) (5) (d) Larger grain borer and the lesser grain borer (5) (e) Physical and mechanical pest control (5) (25 Marks)