



**2<sup>nd</sup> SEMESTER 2011/ 2012**

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**UNIVERSITY OF SWAZILAND**

**SUPPLEMENTARY EXAMINATION PAPER**

**PROGRAMMES: BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION  
YEAR 2, BACHELOR OF SCIENCE IN AGRONOMY YEAR 2,  
AND BACHELOR OF SCIENCE IN HORTICULTURE YEAR 2**

**TITLE OF PAPER: AGRICULTURAL ENTOMOLOGY**

**COURSE CODE: CP 203**

**TIME ALLOWED: TWO (2) HOURS**

- INSTRUCTIONS:**
- 1. THIS PAPER HAS FIVE (5) QUESTIONS**
  - 2. ANSWER QUESTION 1 AND ANY OTHER THREE (3) QUESTIONS**
  - 3. ALL QUESTIONS CARRY EQUAL 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**

**Instruction:-** Answer Question 1 and any other three (3) questions

**Question 1**

**This question is compulsory**

What do the following mean?

1. Parthenogenesis
2. Ommatidium
3. Haltere
4. Hypopharynx
5. Coarctate
6. Metamorphosis
7. Naiad
8. Hypognathous
9. Epicuticle
10. Stylus
11. Pronotum
12. Ootheca
13. Furcula
14. Chelicerae
15. Hemimetabolous
16. Eruciform
17. Xiphosura
18. Alate
19. Aestivation
20. Radula
21. Crawlers
22. Semiochemicals
23. Pheromones
24. Pesticide formulation
25. International Plant Protection Convention (IPPC)

**(25 Marks)**

**Question 2**

- (a) Name ten (10) insect Orders that you know giving an example in each case (15 Marks)
- (b) How would you identify each of these Orders? (10 Marks)

**(25 Marks)**

**Question 3**

Name five (5) major pests of each of the following crops:-

- (a) Citrus
- (b) Crucifers
- (c) Legumes
- (d) Cereals
- (e) Solanaceous crops

**(25 Marks)**

**Question 4**

Explain what biological control is giving examples in order to justify the use of this method for controlling crop pests

**(25 Marks)**

**Question 5**

Name and describe five (5) cultural pest control methods that you would advocate for and also state why you would choose these.

**(25 Marks)**