



UNIVERSITY OF ESWATINI  
RESIT EXAMINATION PAPER

PROGRAM: BACHELOR OF SCIENCE IN AGRONOMY YEAR 1 BACHELOR OF  
SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION YEAR 1 BACHELOR  
OF SCIENCE IN HORTICULTURE YEAR 1

COURSE CODE: CPR101

TITLE OF PAPER: INTRODUCTORY TO AGRICULTURAL ENTOMOLOGY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER ALL QUESTIONS

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**Question 1 (15 Marks)**

Describe the basic body structures you should look at to tell if an arthropod is an arachnid or an insect? (15Marks)

**Question 2 (30 Marks)**

a) Name the appendages in an adult flying insect's body segments indicated below (10 Marks)

- i. Segment 1
- ii. Segment 4
- iii. Segment 6
- iv. Segment 9
- v. Segment 20

b) Describe the function of the appendage you named in Q 2 (a) above (20 Marks)

**Question 3 (25 Marks)**

Discuss the differences and similarities between the following by using insects belonging to each as an example

- a) Apterygota and Pterygota (5 Marks)
- b) Exopterygota and Endopterygota (5 Marks)
- c) Paleopteran and Neopteran (5 Marks)
- d) Orthopteroid and Hemipteroid (5 Marks)
- e) Orthoptera and Isoptera (5 Marks)

**Question 4 (30 Marks)**

a) Describe the following terms: (20 Marks)

- i. Hyper parasite
- ii. Brood parasite
- iii. Social parasite
- iv. Autoparasite



- b) Explain how colour is used in insects' defence by mentioning the various types of insect colorations (10 Marks)