



UNIVERSITY OF SWAZILAND
RESIT EXAMINATION PAPER

PROGRAM

BACHELOR OF SCIENCE IN AGRONOMY YEAR 1

COURSE CODE: CPR101

TITLE OF PAPER: INTRODUCTORY TO AGRICULTURAL ENTOMOLOGY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER ANY FIVE QUESTIONS

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Question 1 (20 Marks)

- a) Name the five appendages that constitute of grasshopper's mouth part (5 Marks)
- b) Discuss the function of each appendage you mentioned in Q1(a) (15 Marks)

Question 2 (20 Marks)

Describe the meaning of the insect order names below; give the common name and two key features of each insect order

- a) Orthoptera (4 Marks)
- b) Lepidoptera (4 Marks)
- c) Coleoptera (4 Marks)
- d) Diptera (4 Marks)
- e) Hemiptera (4 Marks)

Question 3 (20 Marks)

Describe the following structures and discuss their role in insect physiology

- a) Peritrophic membrane (10 Marks)
- b) Salivary gland (10 Marks)

Question 4 (20 Marks)

- a) Explain the difference in growth between insects and higher animals (8 marks)
- b) Discuss the growth process in insects (12 Marks)

Question 5 (20 Marks)

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

Question 6 (20 Marks)

Name and discuss the different categories of pests based on what they target (feed on)