



UNIVERSITY OF SWAZILAND  
RESIT EXAMINATION PAPER

PROGRAMS

BACHELOR OF SCIENCE IN AGRONOMY YEAR 2

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION  
YEAR 2

BACHELOR OF SCIENCE IN HORTICULTURE YEAR 2

COURSE CODE: CPR 201

TITLE OF PAPER: CROP PEST AND MANAGEMENT

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER ALL QUESTIONS

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CHIEF INVIGILATOR

**Question 1 (25 Marks)**

- a) Name five methods of sampling insects from the ground or from vegetation (5 Marks)
- b) Describe how the methods you mentioned in Q1 (a) are employed (20 Marks)

**Question 2 (25 Marks)**

- a) Describe the following plant yield responses to insect infestation (15 Marks)
  - i. Susceptive response (5 Marks)
  - ii. Tolerant response (5 Marks)
  - iii. Over-compensatory response (5 Marks)
- b) Discuss the relation between physiological time and the degree-day method (10 Marks)

**Question 3 (25 Marks)**

- a) Discuss the direct and indirect damages that insect pests cause to crops before harvest (10 Marks)
- b) Outline and discuss five types of post-harvest losses that insects cause to crops (15 Marks)

**Question 4 (25 Marks)**

- a) Describe three methods of biological control of insects (12 Marks)
- b) Describe the types of natural enemy used in biological control of insects (5 Marks)
- c) Discuss the advantages and the disadvantages of biological control in pest management (8 Marks)