



UNIVERSITY OF ESWATINI  
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 (30 Marks)**

- a) What are pests? (5 Marks)
- b) How do pest outbreaks occur? (15 Marks)
- c) Give five signs of insect pest attacks? (5 Marks)
- d) Name five symptoms of insect pest attacks (5 Marks)

**Question 2 (30 Marks)**

- a) Calculate the economic threshold level for a maize stem borer with the following figures (10 Marks)
  - 2 insects/ha cause 1% infestation
  - 2% infestation results in a yield loss of 1 ton
  - Cost of controlling stem borer in maize is R10000/ha
  - The price of maize is R1000//ton and
  - The control method kills only 50% of the stem borers.
  - Assume maize yield/ha at 0 insect/ha (no infestation) to be 100 tons
- b) Describe conditions where economic threshold could not be used in management decision makings (20 Marks)

**Question 3 (20 Marks)**

- a) What kind of organisms are insects? (6 Marks)
  - Useful?
  - Harmful?
  - Neither harmful nor Useful?
- b) Explain your answer by giving examples (14 Marks)

**Question 4 (20 Marks)**

- Define the following terms (20 Marks)
- i. Degree day
  - ii. Biofix
  - iii. phenology
  - iv. Upper threshold Temperature
  - v. Lower threshold temperature