

UNIVERSITY OF ESWATINI



RESIT EXAMINATION 2018/19

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RESIT EXAMINATION PAPER

PROGRAMME: B.SC. IN AGRICULTURAL EDUCATION YR 2, B.SC. IN AGRICULTURAL EDUCATION EXTENSION YR 2, B.SC. IN AGRONOMY YR 2 AND B.SC. IN HORTICULTURE YR 2

COURSE CODE: CPR 201

TITLE OF THE PAPER: CROP PEST AND MANAGEMENT

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ALL QUESTIONS

DO NOT OPEN UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR

Question 1

- a) List and describe five (5) major pests of citrus pest. **(20 marks)**
- b) What are the symptoms associated with the above mentioned pest? **(5 marks)**
- (25 marks)**

Question 2

- a) Explain how insect pests can be prevented or controlled? **(25 marks)**

Question 3

- a) Explain how one can calibrate a knapsack sprayer? **(25 marks)**

Question 4

- a) What is the economic injury level? **(2.5 marks)**
- b) What is the economic threshold? **(2.5 marks)**
- c) What is pest injury? **(2.5 marks)**
- d) What is pest damage? **(2.5 marks)**
- e) When can a farmer start controlling insect pest? **(5 marks)**
- f) What is the difference between indirect injury, direct injury and quantal injury? **(5 marks)**
- g) Calculate the economic injury level, assuming that:
- It costs E50/A to apply a given control (C)
 - A crop is worth E40/bushel (V)
 - Leaf area equal to two leaves/row foot are eaten by each pest individual/plant (I)
 - The loss of two leaves/row foot results in the loss of one bushel/A (D)
 - Even if you apply the control, you will still lose 10 % of the crop ($K = 0.1$, no units). **(5 marks)**
- (25 marks)**