

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR
OF SCIENCE IN HORTICULTURE

AGRI 233: CROP ENTOMOLOGY

STREAMS: B.Sc (HORT) Y2S1

TIME: 2 HOURS

DAY/DATE: THURSDAY 7/12/2017

8.30 A.M - 10.30 A.M.

INSTRUCTIONS:

- This paper has two sections A and B
- Section A accounts for 30 Marks while Section B accounts for 40 Marks
- Section A is compulsory
- Answer any other two questions in Section B

SECTION A

QUESTION ONE

- (a) Briefly describe the factors favouring pest population. [4 Marks]
- (b) Explain the term pest [6 Marks]

QUESTION TWO

Discuss the effect of pesticides on the environment. [10 Marks]

QUESTION THREE

Explain major pest management strategies utilized in insect pest control. [6 Marks]

QUESTION FOUR

Explain four (4) reasons why botanical chemicals have not been developed commercially even though they have been proven to have insecticidal effects. [4 Marks]

SECTION B

QUESTION FIVE

Discuss the discovery, mode of action and examples of pyrethroids. [12 Marks]

Briefly explain the use of pheromone lures in the control of the tomato leaf miner (*Tuta absoluta*) [6 Marks]

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QUESTION SIX

(a) Describe the host range, damage and control measures of Mango fruit fly (*bactocera invadens*) [12 Marks]

(b) Discuss host plant resistance as used in insect pest control. [6 Marks]

QUESTION SEVEN

(a) Explain four (4) stored product pests and discuss their management. [12 Marks]

(b) Describe briefly predator and discuss its role in the control of insect pest. [6 Marks]

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