CHUKA



UNIVERSITY

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EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE

AGRI 233: CROP ENTOMOLOGY

STREAMS: BSC (AGRIC) TIME: 2 HOURS

DAY/DATE: TUESDAY 03/12/2019 11.30 AM – 1.30 PM

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 two questions in section B

SECTION A (30 MARKS): ANSWER ALL QUESTIONS

1	Describe the characteristics of	of arthropods	[6 marks]
1.	Describe the characteristics t	n arunobous.	10 marksi

- 2. Describe two types of metamorphosis typical of insects. [4 marks]
- 3. Describe how legislation can be used as a strategy to control pests. [4 marks]
- 4. With relevant examples, describe the control of insect pests using the following strategies:

(1)	Border crops	[4 marks]
(ii)	Trap crops	[4 marks]
(iii)	Pathogens	[4 marks]
(iv)	Insect growth regulators	[4 marks]

SECTION B (40 MARKS): ANSWER TWO QUESTIONS

- 5. (i) Define the term integrated pest management (IPM) [2 marks]
 - (ii) Describe steps that should be considered when implementing an IPM program. [12 marks]

AGRI 233

	(iii)	Describe the mode of action of the organophosphate class of insec	eticides. [6 marks]		
6.	(a)	Discuss potato tuber moth under the following sub-headings:	[6 marks]		
		(i) Host range(ii) Biology & damage(iii) Control	[2 marks] [6 marks] [6 marks]		
	(b)	Discuss botanical control limitations in insect pest management.	[6 marks]		
7.	Describe how you would develop an integrated pest management programme to control Green peach aphid (Myzus persicae). Give reasons for selecting the strategies named. [20]				
marks]		Ĺ		