CHUKA



UNIVERSITY

[2 marks]

UNIVERSITY EXAMINATIONS.

EXAMINATION FOR THE AWARD OF BACHELOR OF SCIENCE IN HORTICULTURE AND AGRICULTURE

AGRI 233: CROP ENTOMOLOGY

STREAMS: TIME: 2 HOURS

DAY/DATE: THURSDAY 6/12/2019 11.30 A.M. – 1.30 P.M

INSTRUCTIONS

1.

- 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

(a) Define the term pest.

SECTION A: 30 MARKS: ANSWER ALL QUESTIONS

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	(b) Explain the following terms:	
	(i) Economic damage	[2 marks]
	(ii) Economic injury level	[2 marks]
	(iii) Economic threshold	[3 marks]
2.	Differentiate between inundation and inoculation as used in biological control. [8 marks]	
3.	Describe the push and pull technology in the control of the maize stem borer. [6 marks]	
4.	Explain the following terms as used in host plant resistance of insect pests:	
	(i) Tolerance	[2 marks]
	(ii) Antibiosis	[3 marks]

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(iii) Antixenosis	[2 marks]
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SECTION B 40 MARKS : ANSWER TWO QUESTIONS

SECTION D TO MAIN WENT IN O QUESTIONS				
5.	(a) Discuss the potato tuber moth under the following subheadings:			
	(i) Host range	[2 marks]		
	(ii) Damage	[4 marks]		
	(iii) Control	[6 marks]		
	(b) Discuss the impact of agro chemicals to the environment.	[8 marks]		
6.	(a) Define the term IPM.	[3 marks]		
	(b) Describe steps involved in the implementation of an IPM programme.	[12 marks]		
	(c) Deswcribe the limitations associated with use of botanical pesticides.	[5 marks]		
7.	(a) Discuss pyrethroids under the following subheadings:			
	(i) Advantages of synthetic pyrethroids over natural pyrethrins.	[5 marks]		
	(ii) Mode of action	[5 marks]		
	(iii) Examples	[2 marks]		
	(b) Describe pesticides formulations used in application of pesticides.	[8 marks]		