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

HORT 313: HORTICULTURAL CROP PROTECTION

STREAMS: TIME: 2 HOURS

DAY/DATE: WEDNESDAY 11/12/2019 2.30 P.M – 4.30 P.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 two questions in section B

SECTION A (30 MARKS); ANSWER ALL QUESTIONS

- 1. Briefly explain the following terms in relation to pest damage.
 - (a) Economic damage [2 marks]
 - (b) Economic injury level [2 marks]
 - (c) Economic threshold [3 marks]
- 2. (a) Define the term pest. [2 marks]
 - (b) Giving relevant examples, describe the factors affecting pest status. [8 marks]
- 3. Describe the terms (i) severity and (ii) incidence and their utilization in crop loss

assessment. [6 marks]

- 4. (a) Define the term weed. [2 marks]
 - (b) Giving relevant examples, describe general symptoms of weed invasion.[5 marks]

SECTION B

- 5. (a) Discuss the tomato leaf miner under the following sub-headings;
 - (i) Host range [2 marks]

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	(ii) Damage	[6 marks]
	(iii) Control	[6 marks]
	(b) Describe common pesticide formulations used in crop protection.	[6 marks]
6.	(a) Under the following subheadings discuss witch weed.	
	(i) Why it is a successful weed.	[4 marks]
	(ii) Mode of attack	[4 marks]
	(iii) Mechanism of push and pull technology in the control of witch weed	and stem borer.
		[6
marks]		
	(b) Describe the effects of pesticides on the environment.	[8 marks]
7.	(a) Describe the effect of pesticides on the environment.	[8 marks]
	(b) Discuss utilization of biotechnology in crop protection.	[12 marks]