

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

THIRD YEAR FIRST SEMESTER UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT

2021/2022 ACADEMIC YEAR REGULAR

COURSE CODE: APT 3313

COURSE TITLE: Crop Protection

EXAM VENUE: STREAM: BSc. Agribusiness Management

DATE: EXAM SESSION:

TIME: 2 HOURS

Instructions:

- 1. Answer ALL questions in section A and ANY other 2 Questions in section B.
- 2. Candidates are advised not to write on question paper.
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

SECTION A [30 MARKS]

Answer ALL questions from this Section

1. Differentiate the following terms as they apply to the mode of action of insecticides:

	16	MARKS]
	(a) Non-systemic vs systemic insecticide:	
	(b) Selective vs non-selective insecticide:	
	(c) Stomach vs fumigant action:	
2.	. Describe FIVE approaches you can use agronomic and cultural practices in management of a fungal disease MARKS]	integrating [5
3.	. Describe FOUR morphological features used by nematologists to classify orders, and families of the Phylum Nematoda [4]	suborders MARKS
4.	Distinguish the following: MARKS] (a) Epiphytes plants:	[3
	(b) Hemi-parasites:	
	(c) True parasites:	
5.	. How is a fungal hypha similar to a plant root? [2	2 MARKS]
6.	. Explain the following in relation to the management of diseases, insect pests and w	reeds MARKS
(a)	a) ELISA	1
(b) Mechanical control		
(c)	e) Risk assessment	
(d) Beneficial insect		

- (e) Non-target organisms(f) Host range(g) Integrated Pest Management (IPM)(h) Nematicide
- (i) Biological control
- (i) Exotic weed

SECTION B (40 MARKS) Answer ANY TWO questions in this section

- 7. DESCRIBE TEN functions of a regulatory institution tasked with ensuring food security and safety in Kenya [20 MARKS]
- 8. Insects are the most successful species in terms of adaptation. Describe the TEN evolutionary traits responsible for success of insects as serious constraints to agricultural productivity

 [20 MARKS]
- 9. EXPLAIN TEN ways through which weeds of field crops can affect the agricultural industry. [20 MARKS]