Seat No:_ Enrolment No:_

PARUL UNIVERSITY

COLLEGE OF AGRICULTURE

B.Sc. (Hons.) Agriculture Winter 2019-20 Examination

Semester: 5 Date: 18/11/2019

Subject Code: 20107302 Subject Name: Principles of Integrated Pest and Disease Management			Time: 10:30am to 01:00pm Total Marks: 50	
Instruction				
1. All que	stions are compulsory.			
	to the right indicate full marks.			
•	uitable assumptions wherever necessary.			
	ew question on new page.			
Q.1 Do	as Directed.			
A. Fi	ll in the blanks. (Each of 0.5 marks)		(05)	
1.	gave the term host p	lant resistance.		
2.	synthesized DDT in	year.		
3.	Toxic effect produced by a single dose of a	toxicant is called	·	
	"Destructive insects and pests Act" passed i			
	is the third generation			
6.	Rotation with Lucerne crop control	disease of cotton.		
7.			e the disease is	
c	alled			
	Computer based program in U. S. A. for pot	ato late blight is known as	:	
9.	Physical method for managing post-harvest	losses of fruits during transport		
	. Iris Potato Femine (1945-49) in Ireland wa	as caused by dise	ease.	
	ultiple choice type questions. (Each of 0.5		(10)	
	Insect occur in a few isolated localities is l			
	a) Sporadic pest	c) Regular pest		
		d) None of the above		
2.	Physical factors in antibiosis	· · · · · · · · · · · · · · · · · · ·		
	a) Thick cuticle	c) Glandular hairs		
	b) silica deposits	d) All of the above		
3.	-	.,		
	a) cotton bollworms	c) Diamond Back Moth		
	b) chickpea pod borer	d) All of the above		
4.	Host evasion is also known as	<i>a)</i> 1 <i>iii</i> 01 <i>iii</i> 0 <i>ii</i> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
	a) Pseudo resistance	c) Both a and b		
	b) Ecological resistance	d) None of the above		
5	The lowest number of insects that will cause		4	
٥.	a) Economic threshold level	c) Economic injury level	•••••	
	b) Damage boundary	d) None of the above		
6	Which is not an infectious pathogen?	d) Ivolle of the above		
0.	a) Virus	c) Dodder		
	b) Fungi	d) Bacteria		
7	proposed the term 'Aı	· · · · · · · · · · · · · · · · · · ·		
7.	a) R. H. Painter	c) Ortmen Zeidler		
	b) Kogan and Ortman	d) None of the above		
o	Disease responsible for the Iris Potato Fam	,		
٥.	a) Wheat must	o) Coffee must		

a) Wheat rust c) Coffee rust b) Late blight of Potato

9. Bunchy top of Banana disease introduced from....... a) France c) Sri Lanka

d) Europe b) America

10. A visible abnormality observed on the plant due to disease is called........ a) Sign c) Syndrome

d) Paddy leaf spot

b) Symptom d) None of the above 11. Vine industry of France destroyed by the disease of........

a) Powdery mildew c) Wilt

b) Downy mildew d) Leaf blight

	12	. Inundative release is a part ofcon	trol			
		a) Legislative control	c) Cultural control			
		b) Physical control	d) Biological control			
	13.	Tremendous increase in pest population despite	e good initial reduction in pest population at the			
		time of treatment is called				
		a) Pest outbreak	c) Pest incidence			
		b) Pest resurgence	d) Pest occurrence			
	14.	White gray, brownish or purple growth on lowe	r side of leaves is the symptoms of disease			
		a) Powdery mildew	c) Smut			
		b) Rust	d) Downey mildew			
	15.	Collapse and death of seedlings due to extensive	· ·			
		a) Wilt	c) Damping off			
		b) Die-back	d) Root rot			
	16	Khaira disease of Rice is due to the nutritional d	, , , , , , , , , , , , , , , , , , ,			
	10.	a) Fe	c) Zn			
		b) Mn	d) Cu			
	17					
	1/.	Hot water treatment to Pearl millet (Bajara) seed				
		a) Leaf spot	c) Downy mildew			
	10	b) Rust	d) Smut			
	18.	Chemical compound in Neem seed kernel is				
		a) Azadirachtin	c) Curcumol			
	10	b) Allicin	d) Lantic acid			
	19.	Lethal concentration required for killing 50% of	-			
		a) LC ₅₀	c) LC ₉₀			
	•	b) LD ₅₀	d) KD ₅₀			
	20.	Clipping of young seedling to eliminate of egg				
		a) Yellow stem borer	c) Brown plant hopper			
	_	b) Grasshopper	d) All of the above			
Q.2		as Directed.				
A.		ine the following. (Any five)		(05)		
		Super parasitism				
		Economic threshold level				
		Resurgence				
		Augmentation				
		Integrated plant disease management				
	6.	Phytosanitory Certificate				
	7.	Soil solarization				
В.	Ans	swer the following. (Any Five)		(05)		
	1.	Difference between parasite and predator.				
	2.	Difference between inundative release and inocu	ulative release.			
	3.					
	4.	Enlist the classification of disease on the bases of	of perpetuation of the pathogen.			
	5.	Write two fungicides used for seed treatment.				
	6.	Enlist the factors required/ essential for disease	forecasting.			
	7.	Enlist the classification of disease on the bases of	of perpetuation of the pathogen.			
Q.3	Wr	ite short notes. (Any five)		(10)		
	1.	Physical control				
	2.	Biological Control				
	3.	Epidemic disease				
		Pest surveillance				
	5.	Koch's Postulates technique				
		Integrated Diseases Management of Rice				
				(15)		
Q.4	Att	empt any Three/Long Questions/Example		(13)		
Q.4		empt any Three/Long Questions/Example Economic importance of insects.		(13)		
Q.4	1.	Economic importance of insects.	s and mechanisms of host plant resistance with	(13)		
Q.4		Economic importance of insects. What is host plant resistance? Describe types	s and mechanisms of host plant resistance with	(13)		
Q.4	1. 2.	Economic importance of insects.	-	(13)		