Seat No: _____

Enrolment No: _____

PARUL UNIVERSITY COLLEGE OF AGRICULTURE

B.Sc. (Hons.) Agriculture Summer, 2021-2022 Examination

Semester: V Subject Code: 20107302 Subject Name: Principles of Integrated Pest and Disease Management		Date: 30-03-2022 Time: 10:30am to 1:00pm Total Marks: 50	
Instructions			
1. All questions are compulsory.			
2. Figures to the right indicate full marks.			
3. Make suitable assumptions wherever necessar	ry.		
4. Start new question on new page.	-		
Q.1 Do as Directed.			
A. Fill in the blanks. (Each of 0.5 marks)		(05)	
1discovered the inse	cticidal property of DDT in	year.	
2. "Destructive insects and pests Act" pa	ssed inyear.		
3. Toxic effects produced by the accur		toxicant over a long period	
of time is called4. Iris Potato Femine (1945-49) in Ireland		disease	
4. It is rotato relime $(1945-49)$ in fielding	eneration insecticide	disease.	
5is the first g 6is the father of	host plant resistance		
7. Removing or uprooting disease plant fr	om the field to manage the disease	is called .	
8. Computer based program in U. S. A. fo			
9is a localized dise			
10. Management of host gene is known a	IS		
B. Multiple choice type questions. (Each o		(10)	
1is/are major pest.			
a) Cotton jassid	c) Brown plant hopp	er	
b) Rice stem borer	d) All of the above		
2. Green lace wing bug is			
a) Microorganismb) Predator	c) Parasitoidsd) None of the above		
	,		
3. Hot water or hot air treatment is the e			
a) Chemical control	c) Mechanical control	bl	
b) Physical control4chemical release	d) None of the above	and against European com	
borer	sed by marze which imparts resist	ance against European com	
a) Sinigrin	c) Salicylic acid		
b) DIMBOA	d) None of the above		
5 Population density at which control r	,	prevent an increasing pest	
population is referred as			
a) Economic threshold level	c) Economic injury le	evel	
b) Damage boundary	d) None of the above		
6. Which is not an infectious pathogen?			
a) Virus	c) Dodder		
b) Fungi	d) Bacteria		
 7proposed the terr a) R. H. Painter 	c) Ortmen Zeidler		
b) Kogan and Ortman	d) None of the above		
8. Disease responsible for the Bengal Fa	,		
a) Wheat rust	c) Coffee rust		
b) Late blight of Potato	d) Paddy leaf spot		
9. Bunchy top of Banana disease introd			
a) France	c) Sri Lanka		
b) America	d) Europe		
10. A visible abnormality observed on th	-		
a) Sign	c) Syndrome		
b) Symptom	d) None of the above		
11. Vine industry of France destroyed by			
a) Powdery mildew	c) Wilt		
b) Downy mildew	d) Leaf blight		

12	. Inoculative release is a part of	ontrol	
12	a) Legislative control	c) Cultural control	
	b) Physical control	d) Biological control	
13.		te 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.	-	er 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 extensi	ve necrosis of stem tissue is due to	
	a) Wilt	c) Damping off	
	b) Die-back	d) Root rot	
16.	Khaira disease of Rice is due to the nutritional	deficiency of	
	a) Fe	c) Zn	
	b) Mn	d) Cu	
17.	· · · · · · · · · · · · · · · · · · ·	eds at 55°C for 10 minutes controls disease	
	a) Leaf spot	c) Downy mildew	
	b) Rust	d) Smut	
18.	Chemical compound in Neem seed kernel is	· · · · · · ·	
	a) Azadirachtin	c) Curcumol	
	b) Allicin	d) Lantic acid	
19.	A book 'Silent spring' was written by		
	a) Swaminathan	c) S. Pradhan	
	b) Rachel Carson	d) Wigglesworth	
20.	Clipping of young seedling to eliminate of egg	g mass off	
	a) Yellow stem borer	c) Brown plant hopper	
	b) Grasshopper	d) All of the above	
•	as Directed.		
	ine the following. (Any five)		(05)
	Host evasion		
	Sporadic pest		
	Augmentation		
	Biotype		
	Integrated plant disease management		
	Plant quarantine Foreign quarantine		
	swer the following. (Any Five)		(05)
1.	Enlist factors affecting to sampling of insects		(02)
	Difference between domestic quarantine and fo	preign quarantine	
	What is disease triangle?		
	Enlist the classification of disease on the bases	of perpetuation of the pathogen	
	Write two fungicides used for seed treatment		
6.	Enlist the factors required/ essential for disease	eforecasting	
7.		which imparts resistance against <i>Helicoverna</i>	
	Write chemical name released by cotton crop v		
	armigera		
	armigera ite short notes. (Any five)		(10)
	<i>armigera</i> ite short notes. (Any five) Integrated diseases management of Rice		(10)
2.	<i>armigera</i> ite short notes. (Any five) Integrated diseases management of Rice Legislative control		(10)
2. 3.	<i>armigera</i> ite short notes. (Any five) Integrated diseases management of Rice Legislative control Epidemic disease		(10)
2. 3. 4.	<i>armigera</i> ite short notes. (Any five) Integrated diseases management of Rice Legislative control Epidemic disease Pest forecasting		(10)
2. 3. 4. 5.	<i>armigera</i> ite short notes. (Any five) Integrated diseases management of Rice Legislative control Epidemic disease Pest forecasting Koch's Postulates technique		(10)
2. 3. 4. 5. 6.	armigera ite short notes. (Any five) Integrated diseases management of Rice Legislative control Epidemic disease Pest forecasting Koch's Postulates technique Plant quarantine		
2. 3. 4. 5. 6. Q.4 Att	armigera ite short notes. (Any five) Integrated diseases management of Rice Legislative control Epidemic disease Pest forecasting Koch's Postulates technique Plant quarantine empt any Three/Long Questions/Example		(10)
2. 3. 4. 5. 6. Q.4 Att 1.	armigera ite short notes. (Any five) Integrated diseases management of Rice Legislative control Epidemic disease Pest forecasting Koch's Postulates technique Plant quarantine empt any Three/Long Questions/Example Explain cultural control methods of insect p	pests	
2. 3. 4. 5. 6. Q.4 Att	armigera ite short notes. (Any five) Integrated diseases management of Rice Legislative control Epidemic disease Pest forecasting Koch's Postulates technique Plant quarantine empt any Three/Long Questions/Example Explain cultural control methods of insect p What is Biological control? Describe principal		
2. 3. 4. 5. 6. Q.4 Att 1.	armigera ite short notes. (Any five) Integrated diseases management of Rice Legislative control Epidemic disease Pest forecasting Koch's Postulates technique Plant quarantine empt any Three/Long Questions/Example Explain cultural control methods of insect p What is Biological control? Describe principal and limitations.	bests l/techniques of Biological Control and its advantages	

4. Describe the General Principles of Integrated Plant Disease Management.