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KERALA AGRICULTURAL UNIVERSITY B.Sc. (Hons.) Ag. 2016 Admission

III Semester Final Examination-February-2018

Insect Ecology and Integrated Pest Management (2+1)

	E'll in the blooks	Marks:50 Time: 2 hours (10x1=10)
1	Fill in the blanks:	• •
1	The lowest level of injury where the damage can be measured is called theCottony cushion scale, Icerya purchasi was controlled in California by the	
2	introduction of from Australia.	a by the
_	One larval equivalent is× 10 POBs.	
3	apaya mealybug was controlled in India by the introduction and release of the	
4 .		clease of the
5	parasitoid, The lowest number of insects that cause economic damage is called	l as
3	The lowest number of insects that cause economic damage is cance	a as
	Name the following	
6	A green labelled lepidoptericide .	
7	The group of insect pathogens effective against the non-feeding stages of crop pests.	
8	Name an acute poison used in Agriculture.	
9	The entomologist who identified the insecticidal property of DDT.	
10	The species of EPN recommended for management of a key pest of	banana
	Write Short notes on ANY FIVE of the following	(5x2=10)
1	EIL	
2	Mechanisms of Insect resistance	
3	Pseudoresistance	•
4	Bioassay	
5	JH analogues	
6	Parapheromone	
7	Acaricides	
	Answer ANY FIVE of the following	(5x4=20)
1	Briefly discuss the types of crop losses caused by insects	
2	Explain with examples the cultural control as a component in IPM	
3	What are the factors influencing insect population	•
4	What is a predator? List out important groups of insect predators	
5	Briefly discuss legal methods of pest management	
6	Offer critical comments on biocontrol as a component in IPM.	
7	Give a list of eight natural enemies used in the biocontrol with the natural controlled.	ames of the pests

IV Write an essay on ANY ONE of the following

(1x10=10)

- Give the classification of insecticides, briefly mentioning their modes of action, the insects against which these are effective with two examples each
- 2 Explain the biotechnological approaches for insect pest management.