KERALA AGRICULTURAL UNIVERSITY

B.Sc. (Hons.) Agriculture – 2008 Admission
IInd Semester Final Examination - September 2009

Title : Insec	to 1202 of Ecology and Integrated Pest Manage	Max. marks: 80 ment (2+1) Time : 3 hours
I. i)Fill up the bla		$10 \times 0.5 = 5 \text{ marks}$
1. Insects which	destroy other insects are called as	
2. Pests which o	ccur most frequently on a crop are	boste.
3. Pest surveillar	nce comprises of—basic components.	J 23 23 .
4. Net sweeping	method is suited for the assessment of	ra though program counts are the U.
5. IPM means _		mail to at income to
6. Father of HPR		
7. Warfarin is an		
8. Insecticides A	ct came in the year	
9. Toxicity produ	aced by a single dose of a toxicant is	_toxicity
10. MRL means_	·	
ii) Match the foll	lowing:	$5x \ 0.5 = 2.5 $ marks
i) Endosulfan	a - Botanical insecticide	
ii) NPV	b - Chlorinated hydrocarbon	
iii) Neem	c - Organophosphorous insecticide	office in the paper of the collection of the col
iv) Sprayer	d - Microbial insecticide	
v) DDVP	e - Plant protection equipment	
iii) State True OR	R False:	$5x \ 0.5 = 2.5 \ \text{marks}$
1.Vit.K ₁ can be us	ed as antidote.	
2.Hollow cone no	zzles are commonly used in Pest & Disease	control.
3.Adjusting time of	of planting comes under cultural method of	pest management
4.Isotima javensis	controls Tobacco caterpillar.	
5. Clipping the tip	of seedlings practised to reduce population	of rice Yellow Stemborer

II. Write answers in a word or sentence /define

10x 1 = 10 marks

- 1. Egg parasitoid.
- 2. Predator
- 3. What are the pests controlled by NPV?
- 4. Emulsifying agent
- 5. Give two examples for fumigants
- 6. Trade names of the chemical Endosulfan.
- 7. Examples for IGRs
- 8. What are the pests controlled by Fish oil Rosin soap?
- 9. Expand: LD₅₀
- 10. Which gene from Bt is used in Transgenic studies?

III. Write short notes(Answer any TEN)

10x2 = 20 marks

- 1. Life table of Pest.
- 2. Fungi used in pest control
- 3. Antidote
- 4. Limitations of IPM
- 5. Botanical insecticides
- 6. Larval parasitism
- 7. ETL
- 8. Attractants
- 9. Nematicides
- 10. Classification of insecticides based on mode of action
- 11. Insecticide Formulation
- 12. Bacillus thuringiensis

IV. Write short essays on any Four of the following

4x5 = 20 marks

- 1. Types of Insect parasitism.
- 2. Weed killers
- 3. Assessment of Insect population
- 4. Cultural method of Pest control
- 5. Preparation procedure for spray solution
- 6. Zinc phosphide as rodenticide

V. Write essays on Any Two

2x10 = 20 marks

- 1. Biotechnology in pest management.
- 2. Repellants, antifeedants & pheromones
- 3. Plant protection equipments