

KERALA AGRICULTURAL UNIVERSITY
B.Sc (Hons.) Ag. Programme

IInd Semester Re- Examination- July/August -2015

Time: 3 hours

Marks: 80

Cat. No: Ento.1202

Title: Insect Ecology & Integrated Pest Management including Beneficial Insects (2+1)

I Fill in the blanks.

(10x1=10)

1. Third generation and fourth generation insecticides are collectively known as _____.
2. Insecticides exist in three forms namely _____, _____ and _____.
3. Use of beetle hooks to control coconut rhinoceros beetle is a method of _____ type of pest control.
4. Chemicals used to control mites are called _____.
5. A suckering pest controlled by alternate drying and wetting in rice is _____.
6. Use of refrigeration of food at $5-10^{\circ}\text{C}$ to kill insect pests refers to _____ method of pest control.
7. The insecticidal property of HCH was invented by _____ and _____.
8. _____ and _____ are two examples of synthetic pyrethroids.
9. Control of insects by sterilization was first conceived by _____ on the insect pest _____.
10. Two examples of neo nicotinoid insecticides are _____ and _____.

II. Write short notes on any ten

(10x3=30)

1. Silent spring
2. Requirements of a good fumigant
3. Acaricides
4. Cyclodiene compounds
5. Insecticide act
6. Advantages of systemic insecticides.
7. Spinosyns
8. Chronic rodent poison
9. Isomers of HCH
10. Purpose of insecticide application
11. Aerosols

12. Trench digging.

III. Write essays on ANY SIX of the following

(6x5=30)

1. Cultural methods of insect control.
2. Natural factors checking insect populations.
3. Factors influencing insecticide efficiency.
4. Microbial insecticides
5. Insecticide classification based on chemical nature
6. Recombinant DNA technology in pest management
7. Pneumatic sprayers
8. Statutory informations furnished along with insecticides.

IV Write essay on any ONE

(1x10=10)

1. Write briefly about the importance advantages and limitations of IPM
2. Write about insecticide formulations with examples.