

# KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. 2014 Admission

II<sup>nd</sup> Semester Final Examination- July/August-2015

Cat. No: Ento.1202

Marks: 50

Time: 2 hours

**Title: Insect Ecology and Integrated pest Management including Beneficial Insects (2+1)**

**I Fill up the blanks**

(10 x 1=10)

1. Third generation and fourth generation insecticides are collectively known as \_\_\_\_\_
- ✓ 2. Insecticides exists 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 insect 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 FIVE**

(5 x 2=10)

1. Requirements of a good fumigant ✓
2. Chronic rodent position
3. Insecticide act
4. Advantages of systemic insecticides ✓
5. Spinosyns
6. Isomers of HCH
7. Aerosols ✓

**III Write short notes on any FIVE**

(5 x 4=20)

1. Cultural methods of insect control ✓
2. Natural factors checking insect population ✓
3. Factors influencing insecticide efficiency
4. Microbial insecticides ✓
5. Insecticide classification based on chemical nature

6. Recombinant DNA technology in pest management
7. Statutory informations furnished along with insecticides

**IV Write essay on ANY ONE**

(1 x 10=10)

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