

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

(1 x 10) = 10