

# KERALA AGRICULTURAL UNIVERSITY

B.Sc Hons (Ag) 2012 Admission

II<sup>nd</sup> Semester Final Examination- August /September-2013

Cat. No: Ento.1202

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

Marks: 80

Time: 3 hours

## Part I

Answer the following

(10 x 1 = 10)

Fill up the blanks

1. Non preference is also known as \_\_\_\_\_
2. An effective predator for grape vine mealy bug is \_\_\_\_\_
3. Spray bars carrying more than one nozzle is known as \_\_\_\_\_
4. An example for single dose rodenticide is \_\_\_\_\_
5. An example for chitin synthesis inhibitor is \_\_\_\_\_

Define the following

6. Ecology
7. Pest
8. Parasitoid
9. Attractant
10. Antidote

## Part II

Write short notes (Any ten only)

(10 x 3 = 30)

1. Environmental resistance
2. Light as abiotic factor of population dynamics
3. Persistent and sporadic pest
4. ETL and EIL
5. Pest forecasting
6. Mechanical exclusion in pest management
7. Advantages and limitations of biological control
8. NPV
9. Bt
10. Differentiate low volume and ultra low volume spraying
11. Insecticide Act 1968
12. Types of repellents

### Part III

**Write short essays on any six of the following**

**(6 x 5 = 30)**

1. Balance of life in nature
2. Environment and its components
3. Losses caused by pests
4. Mechanisms of resistance
5. Cultural methods of pest management
6. Predators in pest management
7. Insecticides formulation
8. Plant protection equipments

### Part IV

**Write essay on any one**

**(1 x 10 = 10)**

1. IPM concepts and principles
2. Pheromones in pest management