## KERALA AGRICULTURAL UNIVERSITY B.Sc. Hons (Ag) 2011 Admission II<sup>nd</sup> Semester Final Examination, August 2012

Cat. No: Ento.1202	Marks: 80
Title: Insect Ecology and Integrated Pest Management (2+1)	Time: 3hours
I. Fill in the blanks	(10X1=10)
<ol> <li>The term ' Ecology' was coined by</li> <li>The movement of individuals into or out of a population is called</li> <li>Oriented movement in response to light is called</li> <li>The population density that can result in economic losses is called</li> <li>The book</li></ol>	stance. anagement. pacterium
II. Differentiate between the following with examples ( any ten)	(10X3=30)
<ol> <li>Autecology and synecology</li> <li>Major pest and sporadic pest</li> <li>ETL and EIL</li> <li>Antibiosis and antixenosis</li> <li>Super paracitism and multiple parasitism</li> <li>Pheromones and kairomones</li> <li>Contact poisons and stomach poisons</li> <li>Emulsifiable concentrate and soluble concentrates</li> <li>Pneumatic sprayers and hydraulic sprayers</li> <li>Repellants and antifeedants</li> <li>Adjuants and antidotes</li> <li>Insecticide resistance and resurgence</li> </ol>	
III. Write short essays on any five of the following	(5X6=30)
<ol> <li>Factors influencing population of an organism</li> <li>Mass multiplication of Trichogramma wasps</li> <li>Transgenics in pest management</li> <li>Entomopathogenic fungi</li> </ol>	2
<ol> <li>The Insecticide Act, 1968</li> <li>Sterile Insect Technique</li> <li>Botanical insecticides.</li> <li>IV. Answer any one of the following</li> </ol>	(1X10=10)
<ol> <li>Classify synthetic insecticides based on the chemical nature, giving example for each class.</li> </ol>	

2. Discuss the potential and limitations of IPM