

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry. 2014 Admission
IInd Semester Final Examination- August-2015

Cat. No: Wild.1202

Marks: 50

Title: Forest Entomology and Invertebrate Biodiversity (2+1)

Time: 2 hours

I Fill up the blanks

(10 x 1=10)

1. _____(Sci.name) act as a defoliator of teak
2. The insect which have two or three hosts is referred as _____ pest
3. *Polexorista solennis* belongs to the family _____
4. A parasite of a parasite is referred as _____
5. Lac is marketed as _____
6. The termites are also referred as _____
7. The host plant for mulberry silkworm is _____(Sci name)
8. Linear mine is caused by _____
9. KFRI stands for _____
10. *Phaliga maecharalis* belongs to the family _____

II Write short notes on any FIVE

(5 x 2=10)

1. Define biological diversity .Explain the levels at which it is studied
2. Name the productive insects .Explain the biology of the insect which produce lac
3. Give the characteristics of the phylum Arthropoda with examples
4. Define artificial control .How it differ from natural control. List the different components of natural control
5. What are the advantages of biological methods of pest Management
6. Write the importance of conservation of biodiversity
7. How does the pre and post harvest infestation of seeds take place .What are the preventive and curative methods of control of infestation

III Write short notes on any FIVE

(5 x 4=20)

1. Explain the major strategies of conservation of invertebrate diversity considering butterflies as an example
2. What are the role of protected areas in conserving invertebrate diversity
3. Give the biology and management of Sal heart wood borer
4. List the different categories of wood borer and their management
5. List the Cerambycid borer species causing damage to standing trees and wooden logs
6. Give the brief biology ,symptoms and management of teak skeletoniser ,*Phaliga maecharalis*

7. Name the species of insects that induce deformities , malformation and plant galls in forest tree species

IV Write essay on ANY ONE

(1 x 10=10)

1. How insecticides are classified based on mode of action ,mode of entry and chemical nature
2. What is IPM .Discuss the concepts of IPM and its components in relation to forest pests
