



**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc. (Hons.) Forestry 2016 Admission**  
**III Semester Final Examination-February-2018**

Narm.2104

Forest Entomology (1+1)

Marks: 50  
Time: 2 hours  
(10x1=10)

**I Define the following**

- 1 Name two Lepidopteran Forest Pests in India
- 2 Give the binomial name of any Lac insect
- 3 Define the term "pest"

**State True or False**

- 4 *Bacillus thuringiensis* is a microbial pesticide
- 5 The Sal borer is an insect which aggregates on weak trees
- 6 There are no borer pests for the Teak tree
- 7 Monocultures suffer high damage from pests than natural forests
- 8 The first insect pheromone was isolated from the Silkworm moth.
- 9 The lac insect yields resin, dye and wax
- 10 *Hyblaea puera* is a pest of the Eucalyptus tree

**II Write Short notes on ANY FIVE of the following**

(5x2=10)

- 1 Differentiate between Sticklac and Seedlac
- 2 Microbial control
- 3 Pests of Ailanthus
- 4 Diversity of commercially used honey bees
- 5 *Sahyadrassus malabaricus*
- 6 Isopteran pests in forest plantations
- 7 Explain with example "Silvicultural control"

**III Answer ANY FIVE of the following**

(5x4=20)

- 1 Which was the invasive alien insect that caused problems to the Eucalyptus plantations? What are the control methods?
- 2 Distinguish Chemical control and Pheromonal control
- 3 Write on any successful biological control
- 4 Write on the impact caused by the Sal borer? What are its management methods?
- 5 Write on Insect pests of freshly felled trees
- 6 Discuss on insects of commercial value
- 7 Write on biological management of insect pests with examples.

**IV Write an essay on ANY ONE of the following**

(1x10=10)

- 1 Review the status of forest insect pests in the plantations and natural forests of Kerala.
- 2 List the pests which attack the Teak tree during its life time, the impacts caused by them and the current management options.

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