

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry Degree Programme 2015 Admission

IInd Semester Final Examination-August 2016

Cat. No: Wild.1202

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

Marks: 50.00

Time: 2 hours

I Define

(10 x 1 =10)

1. Annelida
2. Diapause
3. Apterygota and give scientific name of two species
4. Araneae

Fill up the blanks

5. Shellac is a product of the secretion of lac scale insect _____
6. Scientific name of Ailathus defoliator is _____
7. Scientific name of the Sal heartwood borer is _____

State True or False

8. Mallophage are small wingless insects which live as endoparasites.
9. Chalcididae are species widely distributed all over the world and parasitic on the larvae or pupae of Lepidoptera, Coleoptera and Diptera.
10. Deodar (*Cedrus deodara*) is attacked by a geometrid defoliator.

II Write short notes on ANY FIVE

(5 x 2 =10)

1. Classification of insecticides.
2. Insect pests of Bamboo.
3. Diagnostic characters of Termitidae and its importance in forestry.
4. Biological control of insect pests.
5. Examples of parasites and predators in insect control
6. NPV (Nuclear Polyhedrosis Virus).
7. Sericulture

III. Explain ANY FIVE of the following

(5 x 4 =20)

1. Bio -safety and bioethics
2. Major threats to invertebrate diversity
3. Describe salient methods and principle of pest control
4. Insect pests of forest seeds
5. Biodiversity conservation of invertebrates
6. Systematics of an invertebrate group other than insect
7. Lac culture

IV. Write essay on ANY ONE

(1 x 10=10)

1. Biology, economic importance of honey bees and apiculture.
2. Classification of forest pests giving the types of damages and symptoms and factors affecting pest infestation and their management.
