

KERALA AGRICULTURAL UNIVERSITY

B.Sc. Hons (Ag) 2010 Admission
IVth Semester Final Examination, July /August 2012

Cat. No: Ento.2203

Marks: 80
Time: 3hours

Title: Pests of crops and stored grains and their management (2+1)

- I. A. Give the name of the pests responsible for the following symptoms (5x1=5)
1. Serpentine mines in cowpea leaves
 2. Longitudinal folding of leaves, tip downward towards the midrib in paddy nursery
 3. Stem and root swellings with sickly appearance galls in apple
 4. Twisting, stunting and breaking of stem in amaranthus
 5. Galeries of silk and frass on the underside of coconut fronds
- B. Name the following (scientific name) (5x1=5)
6. Egg predator of Brown plant hopper in rice
 7. Mango leaf webber
 8. Subterranean pest of coconut
 9. Mite causing rat tail symptom in chilly
 10. Rhizome weevil of banana
- II. Write short notes on any ten (10x3=30)
1. Management of ground nut hairy caterpillar
 2. Integrated pest management strategy for Brown Plant Hopper
 3. Management of snails in orchids and anthurium
 4. Bionomics of castor shoot and capsule borer
 5. Integrated pest management of Pea aphid
 6. Non chemical measures for the management of caterpillar pests of cabbage
 7. Symptom and damage caused by *Pectinophora gossypiella*
 8. Management of *Helicoverpa armigera* in pulses
 9. Symptom, damage and biology of *Earias vitella* in bhindi
 10. Early borer in sugar cane
 11. Importance of white flies and their management practice in vegetables
 12. Ghujia weevil in wheat
- III. Write short essays on any six (Give scientific names wherever necessary) (6x5=30)
1. Symptom, damage and management schedule of tea mosquito in cashew
 2. Biology, symptom, damage and management of *Leucinodes orbonalis*
 3. Natural enemies in rice ecosystem and need to conserve them
 4. Describe the life cycle of pollu beetle in pepper and list out IPM measures
 5. Give the economic importance of cardamom thrips and its management strategy
 6. Secondary pests of stored grains

7. Management of Rhizome weevil in banana
8. Pests of rose and their management

IV. Write essay on any one of the following (10x1=10)

1. List out the tissue borers, defoliators and sucking pests of rice and IPM schedule for each group
2. Enlist the Sucking pests of coconut, distinguish the symptoms and give strategies to control them