

KERALA AGRICULTURAL UNIVERSITY
B.Sc. (Hons.) Agriculture – 2007 Admission – IVth Semester
Final Examination - July/August 2009

Cat.No. : Ento 2203
Course : Pests of Crops and Stored Grain
and their Management (2+1)

Max. marks: 80
Time : 3 hours

I. Match the following / define

10X1= 10

- | | |
|--------------------------------------|-------------------------------|
| Q1. Cottony cushion scale | (a) Mango fruit fly |
| Q2. Brown plant hopper | (b) Pest of field and storage |
| Q3. <i>Ceratovacuna lanigera</i> | (c) Acaricide |
| Q4. <i>Dichocrocis punctiferalis</i> | (d) <i>Rodolia cardinalis</i> |
| Q5. Dicofol | (e) Ptb 33 rice |
| Q6. <i>Cylas formicarius</i> | (f) sugarcane woolly aphid |
| Q7. <i>Bactrocera dorsalis</i> | (g) Castor capsule borer |

Define the following

- Q8. Economic threshold level
Q9. Bio-pesticides
Q10. Biotypes

II. Write short notes on ANY TEN

10 x 3 = 30

- Q1. Damage symptoms of *Chilo infuscatellus*
Q2. Trap cropping in pest management.
Q3. Bulb maggot of onion
Q4. Symptom of thrips attack in cardamom
Q5. Sap feeders in cotton
Q6. Stem borer damage in sorghum
Q7. Management of Green house pests
Q8. Management of pollu beetle in pepper
Q9. Rhizome weevil damage in banana
Q10. Eriophyid mite damage in coconut
Q11. Modern storage structures to contain storage pests
Q12. Management of Red hairy caterpillar in ground nut

III. Write short essays on ANY SIX*

6 x 5 = 30

- Q1. Insect Resistance Management to tackle *Helicoverpa armigera*
- Q2. List out the major pests of jasmine with suitable remedial measures
- Q3. Bionomics and management of coffee berry borer
- Q4. Enlist the pests of moringa and give the bionomics and management of pod fly.
- Q5. Borer pests of apple
- Q6. Describe the nature and damage symptoms of cashew stem borer
- Q7. Management of whitefly in crops
- Q8. Pod borer complex in pulses

IV. Write essay on ANY ONE

1 x 10 = 10

- Q1. Enlist the major pests that attack rice. Give the bionomics, symptom of attack and management practices.
- Q2. Write an essay on pests of stored produce, causes for storage loss and suggest management to contain stored product pests