

KERALA AGRICULTURAL UNIVERSITY
B.Sc. (Ag) 2004 Admission IV Semester Final Examination,
December 2006

2004-04

Ento 2203
Crop pests and their management (2+1)

Max. Marks: 60
Time: 2 ½ hours

PART I

20 x 0.5 = 10

1. Name any two host crops of *Aphis gossypii*
2. Which lepidopteran pest is causing damage during its adult stage?
3. What is the vector of okra yellow vein mosaic?
4. What is the destructive stage of sorghum shoot fly?
5. Which part of ragi is infested by *Tetraneura nigriabdominalis*?
6. Write the morphological characters of larva of spotted pod borer

Write the scientific name of the following pests

7. Banana burrowing nematode
8. Citrus nematode
9. Brinjal beetle
10. Blister beetle
11. Cardamom capsule borer

Write the common and scientific names of insects pest responsible for the following symptoms

12. Wilting of groundnut plants in patches
13. Hopper burn symptom in castor
14. Serpentine mines in cotton leaves
15. Curling of leaf tip of onion

Fill in the blanks

16. ----- is responsible curling and drying of tea leaves
17. *Aceria jasmini* causes ----- on the surface of the leaves
18. ----- is a fumigant used to manage stored product pests
19. ----- is a acute rodenticide
20. Bore hole at the base of the stem of pear is the symptom of damage of -----

PART II

14 X 1 = 14

1. What is the Economic Threshold level for rice stem borer and leaf folder?
2. Write the importance of oil palm weevil
3. How will you manage the mealy bugs in ornamental plants?
4. List out the different species of tortoise beetle occurring in sweet potato
5. Distinguish between *Anopheles* sp and *Culex* sp
6. Write the of biology or areca nut inflorescence caterpillar
7. Write the common and scientific names of mites occurring in tea
8. Write the practices recommended for managing chilli thrips
9. Write the practices recommended for managing insects pests of leafy vegetables?

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Write the damage symptoms caused by the following pests

10. *Longitarsus nigripennis*
11. *Leucinodes orbonalis*
12. *Pectinophora gossypiella*
13. *Nilaparvata lugens*
14. *Cylas formicarius*

PART III

8 X 2 = 16

Answer any eight questions

1. What is meant by trap crop? What is the trap crop recommended for managing chilli fruit borer?
2. How will you manage cashew stem borer?
3. What are the insecticides recommended for managing rice brown plant hopper?
4. What are the symptoms caused by *Maruca testularis*?
5. Write the biology of castor capsule borer
6. Give an account of OX warble fly
7. Write the life cycle and the damage symptoms of pulse beetle?
8. Write the name of the fumigants with dosage used in stored product pests management
9. Give an account citrus leaf miner?
10. Describe the biology of jack fruit borer

PART IV

5X4=20

Answer any five questions

1. Explain the nature of damage, biology and management practices for coffee borers
2. Give an account of weevils in banana
3. Describe the nature of damage, biology and management practices for *Helicoverpa armigera*
4. List out the major insects pests of coconut and describe the biology and management of coconut eriophyid mite
5. What are the non-chemical methods recommended for managing rice pests?
6. List out the borer pests of sugarcane. Explain the life history and management of any one of them.