

KERALA AGRICULTURAL UNIVERSITY
B.Sc. (Ag) Supplementary Examination, December 2008

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

Max. Marks: 60
Time: 2 hours

I Answer all questions

State whether the following statements are true or false (20x0.5=10)

1. Bulk of honey is obtained from Rock bee
2. Super clearer is used to avoid the drones inside the hive
3. Females of lac insects are winged
4. Eri silk worm can be reared in tapioca leaves.
5. Phorate belongs to the carbamate group of insecticides
6. Galls are formed only by dipterans
7. Sporadic pests are the ones found all through the year
8. UV rays are detrimental for pathogens.
9. Mixing of red earth with pulses is cultural control.
10. Natural enemies of pests is not an abiotic factor.

Fill up the blanks

11. The term ecology was coined by _____
12. Indoxacarb is available commercially as _____
13. Nereistoxin is obtained from _____
14. Spinosad is obtained from _____
15. Insecticides Act came into force in the year _____
16. Indian Lac Research Institute is located at _____
17. DIPA stands for _____
18. _____ lit. of water per hectare is used in a low volume spray
19. _____ can be used as a phagostimulant to enhance action of NPV
20. Passing rope over rice canopy to dislodge the cases is _____ pest control

II. Define/ describe in one / two sentences

(14x1=14)

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|--------------------|---------------------|-------------------------------|----------------|
| 21. Chemosterilant | 25. Stomach poisons | 29. ED ₅₀ | 33. Parasitoid |
| 22. Nanopesticide | 26. Tukra disease | 30. Resurgence | 34. Synecology |
| 23. Melitophily | 27. Niche | 31. Nerve poisons | |
| 24. Neonicotinoids | 28. Cry toxins | 32. Intraspecific competition | |

III. Differentiate/write short answers for any eight

(8x2=16)

35. LD₅₀ and LC₅₀
36. ETL and EIL
37. Multiple and Super parasitism
38. Grasserie and Flatcherie disease of silkworm

- 39. Enemies of lac insect
- 40. Vertical and Horizontal resistance
- 41. Factors of pest outbreak
- 42. Abiotic factors

Refute/defend

- 43. New molecules of insecticides are more ecofriendly (Refute / defend)
- 44. Quality control of biocontrol agents is mandatory (Refute / defend)

IV. Answer in detail any FIVE of the following (5x4=20)

- 45. Describe the ill effects of pesticides
- 46. Compartmentalize IPM and narrate the procedure for Cotton crop.
- 47. Discuss the predators and diseases of honey bees
- 48. Bring out the classification of insecticides.
- 49. Outline classification of pest damage/injury to crops along with examples
- 50. Explain non mulberry silkworm rearing.