

Total No. of Questions : 09

INSECT ECOLOGY AND INTEGRATED PEST MANAGEMENT

Subject Code : BVAG-206-18

M.Code : 76178

Time : 3 Hrs.

Max. Marks : 60

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a) Diapause
- b) Classification of pest based on level of infestation
- c) What is life table and its significance?
- d) Microbial control
- e) Economic threshold level
- f) Biorational pesticides
- g) Biotic potential
- h) Transgenic plant
- i) Mixed function oxidases (MFO)
- j) Pest forecasting

SECTION-B

2. Define crop loss. What is the utility of estimation of crop losses in pest management? Give an outline of various methods used for relative estimates of pest populations?
3. Write the short notes on the following :
 - a) Neonicotinoids
 - b) Systemic insecticides
 - c) Oxadiazines
 - d) Legislative control
 - e) Botanicals
4. What are the advantages and disadvantages of using pheromones in pest control? Classify allelochemicals into different categories.
5. What are organophosphates insecticides and what is their mode of action? How is it different from mode of action of carbamates?
6. Define mechanical control and discuss different methods of mechanical control of insects.

SECTION-C

7. Define ecology. Describe various biotic and abiotic factors which influence the distribution and abundance of insects. Outline the structural components of an ecosystem.
8. Define Host plant resistance. Discuss mechanisms and basis of host plant resistance. Advantages and disadvantages of resistant varieties in IPM.
9. Define IPM. Discuss concepts and tools of IPM and what are the critical factors and constraints for execution of IPM programmes.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.