

This question paper contains 3 printed pages]

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S. No. of Question Paper : 1853

Unique Paper Code : 217665

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Name of the Paper : Integrated Pest Management

Paper : 23

Name of the Course : B.Sc. Applied Life Science

Semester : VI

Duration : 3 Hours

Maximum Marks : 75

*(Write your Roll No. on the top immediately on receipt of this question paper.)*

Attempt five questions in all, including

Q. No. 1 which is compulsory.

1. (a) Define the following terms :

4

(i)  $LC_{50}$

(ii) Antifeedant

(iii) Synergist

(iv) General Equilibrium position

(b) Distinguish between the following :

10

(i) Axonic poison and synaptic poison

(ii) EIL and ET

(iii) Intercropping and trap crop

(iv) Sporadic pest and seasonal pest

P.T.O.

- (c) Expand the following : 5
- (i) CIBC
  - (ii) EDCT
  - (iii) EC
  - (iv) PBO
  - (v) EPA
- (d) Name the active ingredient present in the following : 4
- (i) Sevin
  - (ii) Baygon
  - (iii) Foliadol
  - (iv) Lindane
- (e) Name the chemical group to which the following insecticides belong : 4
- (i) DDT
  - (ii) Parathion
  - (iii) Aldicarb
  - (iv) Deltamethrin
2. (a) Give an account of various cultural methods used in insect control. 8
- (b) Write a note on quarantine control of pests. 4

3. (a) Give the principle of biological control of insects and explain the various strategies used in this method. 8
- (b) Briefly discuss the merits and demerits of biological control method over the chemical control methods. 4
4. What is IPM ? Give an account of the various components of IPM. How is this method of pest control advantageous over other methods of pest control ? 12
5. (a) How are insecticides classified on the basis of their mode of entry ? Give suitable examples. 6
- (b) Write a note on insecticides of botanical origin. 6
6. (a) Differentiate between allomones and pheromones. How are pheromones employed to control insect pests ? 8
- (b) Discuss the role of IGRs in insect pest control. 4
7. Write short notes on any *three* of the following : 12
- (a) Sterile Male Technique
- (b) Role of biotechnology in plant protection
- (c) Fumigants
- (d) Chemosterilants.