

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester : III (New)	Term : First	Academic Year : 2023-24
Course No. : ENTO 232	Title : Insect Ecology and Integrated Pest Management	
Credits : 2 (1+1)	Time : 9:00 to 11:00 hrs.	Total Marks : 40
Day & Date : Tuesday, 12.12.2023		

- Note :**
1. Solve ANY EIGHT questions from SECTION 'A'.
 2. All questions from SECTION 'B' are compulsory.
 3. All questions carry equal marks.
 4. Draw neat diagram wherever necessary.

SECTION 'A'

- Q.1 Define the term 'Insecticide'. Give the classification of insecticides on the basis of chemical composition with one example each.
- Q.2 Define the term 'Pest'. Give different categories of pest.
- Q.3 Enlist different methods of pest control. Explain the cultural method of pest control with suitable examples.
- Q.4 Define the term 'Biological control'. Explain the techniques of biological control.
- Q.5 Define 'IPM'. Write in brief about the concepts of 'IPM'.
- Q.6 a) Enlist the different categories of legislation.
b) State the characteristics of ideal parasitoid.
- Q.7 Define 'Insect Ecology'. Explain the effect of temperature on insects with suitable examples.
- Q.8 a) Describe the types of pheromone.
b) Enlist the causes of pest outbreak.
- Q.9 What is insecticidal formulation? Enlist different types of formulation with one example each.
- Q.10 Write short notes on (Any Two):
a) Mechanism of Host Plant Resistance
b) Antifeedant
c) Role of IGRs in pest management

SECTION 'B'

- Q.11 Define the following terms:
1) Biotic potential 2) Legislative control 3) Attractants 4) LC₅₀
- Q.12 Match the pairs:
- | 'A' | 'B' |
|--------------------|-----------------------|
| 1) BHC | a) Rachel Carson |
| 2) Silent Spring | b) Michael Faraday |
| 3) Genetic control | c) Piperonyl butoxide |
| 4) Synergist | d) E.F. Knipling |

