

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester : III (New)	Term : First	Academic Year : 2022-23
Course No. : ENTO 232	Title : Insect Ecology and Integrated Pest Management	
Credits : 2(1+1)	Time : 09:00 to 11:00 hrs.	Total Marks : 40
Day & Date : Wednesday, 08.02.2023		

- 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 Enlist abiotic factors of environment. Explain in detail effect of light on insect life.
- Q.2 Enlist different application techniques of insecticides and describe any three of them.
- Q.3 What is pest? Explain in detail the causes of pest outbreak in agro-ecosystem.
- Q.4 Define insecticide formulations and describe in detail any three formulations.
- Q.5 Define Integrated Pest Management (IPM). Discuss in brief the concepts of IPM.
- Q.6 Write short notes on (Any Two):
- a) Categories of pests
 - b) Pest surveillance and forecasting
 - c) Characteristics of ideal parasitoid
- Q.7 Enlist different methods of pest control. Explain physical method of pest control with suitable examples.
- Q.8 Write about the mechanism of Host Plant Resistance.
- Q.9 Define insecticide and classify them on the basis of mode of action.
- Q.10 Describe in brief the recent methods of pest control.

SECTION 'B'

- Q.11 Define the following terms:
- 1) Synecology
 - 2) ETL
 - 3) LD₅₀
 - 4) Chemosterilants
- Q.12 Fill in the blanks:
- 1) A population of interbreeding individuals, is called as _____.
 - 2) The term 'Ecosystem' was coined by _____.
 - 3) The Insecticides Act in India was enforced in the year _____.
 - 4) National Center for Integrated Pest Management is located at _____.

