

**MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE**  
**SEMESTER END THEORY EXAMINATION**

**B.Sc.(Hons.) Agriculture**

Semester	: V	Term	: First	Academic Year	: 2024-25
Course No.	: ENTO 354	Title	: Pests of Crops and Stored Grain and their Management-I		
Credits	: 2 (1+1)				
Day & Date	: Friday, 11.10.2024	Time	: 14:00 to 16:00 hrs.	Total Marks	: 40

- 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 Write scientific name, host plant, typical damage symptoms and management practices for brown plant hopper in paddy.
- Q.2 Enlist the major pests of chickpea with scientific names and describe management practices for *Helicoverpa armigera*.
- Q.3 Enlist sucking pest complex of cotton. Describe its nature of damage and write management practices.
- Q.4 Enlist the pests of primary stored grain with examples. Explain in brief the preventive measures for their management.
- Q.5 Give scientific name, site of oviposition, nature of damage and management practices for sorghum shoot fly.
- Q.6 Write the scientific name, damaging stage, nature of damage and management practices for top shoot borer of sugarcane.
- Q.7 Enlist the four major pests of soybean with scientific names and describe nature of damage as well as management practices against *Obereopsis bravis*.
- Q.8 Enlist any four non-insect pests and describe management of Snail.
- Q.9 Write short notes on (Any Two):
- a) List of polyphagous pests with scientific name
  - b) Caste of Termite
  - c) *Holotrichia serrata*
  - d) *Pectinophora gossypiella*
- Q.10 Write scientific name with order, nature of damage and management practices for mustard saw fly.

**(P.T.O.)**

### SECTION 'B'

Q.11 Do as directed:

- 1) Write down the two names of entomopathogenic insecticides.
- 2) Give the site of pupation of castor semilooper.
- 3) Which pest causes 'Chikata' or 'Sugary' disease in sorghum?
- 4) Write down the family of rats.

Q.12 Give the name of the predator/parasitoids of the following pests:

- 1) Eggs parasitoides of Stem borer, *Scirpophaga incertulas*.
- 2) Nymphal parasitoides of Cotton whitefly, *Bemisia tabaci*.
- 3) Nymph and adult parasitoides of Sugarcane pyrilla, *Pyrilla perpusilla*.
- 4) Predator on Mustard aphids, *Lipaphis erysimi*.

