

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	: VI (New)	Term	: Second	Academic Year	: 2022-23
Course No.	: ENTO 365	Title	: Management of Beneficial Insects		
Credits	: 2 (1+1)				
Day & Date	: Saturday, 08.07.2023	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 Outline the scope and importance of beneficial insects in agriculture using appropriate examples.
- Q.2 Discuss different types of bees with their important characters.
- Q.3 Briefly explain chawki or the early rearing of mulberry silkworms with respect to feeding care, bed cleaning, moulting and hygiene.
- Q.4 Describe different methods of pruning mulberry plant and harvesting of mulberry leaves.
- Q.5 Enlist different pests and diseases of silkworm along with their management.
- Q.6 Enumerate various forms of lac and their uses.
- Q.7 Illustrate ideal characteristics of bioagents of insect-pests.
- Q.8 Comment on successful examples of biological control in India.
- Q.9 Describe mass multiplication and field release techniques for *Cryptolaemus montrouzieri*.
- Q.10 Write short notes on (Any Two):
- a) Pollinators and scavengers
 - b) Steps in production of *Trichogramma* sp.
 - c) Diseases of honey bees
 - d) Predatory and parasitic orders

SECTION 'B'

- Q.11 Define the following terms:

- 1) Apiculture
- 2) Sericulture
- 3) Parasitoid
- 4) Predator

- Q.12 Match the pairs:

'A'

- 1) Central Sericulture Research and Training Institute
- 2) Indian Institute of Natural Resins and Gums
- 3) National Bureau of Agricultural Insect Resources
- 4) Central Bee Research and Training Institute

'B'

- a) Namkum (Ranchi)
- b) Mysuru
- c) Pune
- d) Bengaluru

