

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester : II (New)

Course No. : ENTO 121

Credits : 2 (1+1)

Day & Date : Saturday, 25.05.2024

Term : Second

Academic Year : 2023-24

Title : Fundamentals of Entomology

Time : 10:00 to 12:00 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'

- 3 • Q.1 Describe the structure of insect integument with well labeled diagram.
- Q.2 Enlist the distinguishing taxonomic characters of Order Coleoptera.
- Q.3 Explain in brief the digestive system of insect with well labeled diagram.
- Q.4 Write short notes on (Any Two):
- a) Typical antenna of an insect
 - b) Types of reproduction in insects
 - c) Types of insect larva
- 1 • Q.5 Explain different modifications of wings observed in insects with suitable examples.
- Q.6 Explain sclerites and sutures of insect head capsule.
- Q.7 Explain in detail the structure of typical leg of an insect.
- 2 • Q.8 Define Metamorphosis. Explain in brief different types of metamorphosis observed in insects with examples.
- 2 • Q.9 Define Insect. Write in brief the causes of Insect Dominance.
- Q.10 Explain the mouthparts of honey bee with figure.

SECTION 'B'

Q.11 Define the following terms:

- 1) Pterothorax 2) Synapse 3) Taxonomy 4) Entomology

Q.12 Fill in the blanks:

- 1) _____ type of head position is observed in red cotton bug.
- 2) Pigmented spot present on insect wings is called as _____.
- 3) The endoskeleton of head is called as _____.
- 4) Insects belong to the Phylum _____.

