



Progressive Education Society's
Modern College of Arts, Science & Commerce Ganeshkhind, Pune – 16
(Autonomous)
End Semester Examination: OCT / NOV 2024
Faculty: Science and Technology

Program: B.Sc.Gen03

Semester: V

SET: A

Program (Specific): Zoology

Course Type: DSEC

Class: T.Y.B.Sc.

Max. Marks: 35

Name of the Course: Applied Entomology

Course Code: 24-ZO-351

Time: 2Hr

Paper: I

Instructions to the candidate:

- 1) *There are 4 sections in the question paper. Write each section on separate page.*
- 2) *All Sections are compulsory.*
- 3) *Figures to the right indicate full marks.*
- 4) *Draw a well labelled diagram wherever necessary.*

SECTION: A

Q1) Multiple Choice Question

5

1. **Which of the following statements is true about Entomology.**
 - (a) The study of Birds
 - (b) The study of Insects
 - (c) The study of Microbes
 - (d) The study of parasitic worms
2. **Which of the following is called the resting and inactive stage in the insect life cycle.**
 - (a) The Egg stage
 - (b) The Larva stage
 - (c) The pupa stage
 - (d) The Adult stage
3. **Insects, which feed on one type of food, are called _____.**
 - (a) Polyphagous
 - (b) Monophagous
 - (c) Entomophagy
 - (d) None of the above
4. **Insects are classified into the phylum_____.**
 - (a) Nematoda
 - (b) Mollusca
 - (c) Arthropoda
 - (d) Platyhelminthes
5. ***Odontotermes obesus* is the scientific name of which of the following insects.**
 - (a) Termite
 - (b) Cutworm
 - (c) Red ant
 - (d) Shoot borer

Q2) Very short answer questions (Attempt any 4/6)

4

1. Define Entomology.
2. Explain insect integument.
3. Describe cursorial legs of insects.
4. Describe Metamorphosis
5. Define insect ecology.
6. Define Eusociality.



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SECTION: B

Q3) Short answer questions (Attempt any 4/6) 8

1. Describe gradual metamorphosis.
2. Write a note on mimicry in insect.
3. Sketch and label mouth parts of insect.
4. Describe derivatives of insect integuments.
5. Enlist any two social insect.
6. Write a note on haemolymph.

SECTION: C

Q4) Short answer questions (Attempt any 4/6) 8

1. Describe holopneustic tracheal system of insect with example.
2. Enlist abiotic factors of insect ecology.
3. Sketch multipolar neuron.
4. Write a note on interspecific interactions among insects.
5. State a function of insect antennae.
6. Enlist two hormones of insect.

SECTION: D

Q5) Long answer type Questions (Attempt any 2/4) 10

1. Explain in detail economic importance of insect.
2. Write a note on eusociality and its significance.
3. With the help of schematic diagram, describe in brief digestive system of insect.
4. Describe social organization in termites.