

## **SET-B**

This question paper contains 1 printed page.

Sr. No. of Question Paper \_\_\_\_\_

Your Roll No.....

Name of the Course : B.Sc. (Prog.) Applied Life Sciences with Agrochemicals and Pest Management

Semester : V

Unique Paper Code : 42237907

Name of the Paper : General Entomology

Time: 3 Hours

Maximum Marks: 75

### Instructions for Candidates

1. Write your Roll No., name of the paper, course, semester and date of examination on the first page of your answer sheet.
  2. Attempt **ANY FOUR** questions.
  3. All questions carry equal marks.
  4. Draw well labelled diagram wherever necessary.
  5. Each question carries equal marks (18.75).
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1. How can you collect different insects and preserve them? Explain the rearing process for any 3 economically important insects.
  2. Why are the antennae and mouthparts of insects very important for their survival? Diagrammatically explain different kinds of antennae and any 4 types of mouthparts found in insects with examples.
  3. Insects have mosaic vision which help them to identify the slightest of the movements. Justify this statement with detailed structure of compound eyes and the different kinds of image formation.
  4. Give an account of various types of metamorphic development patterns in insects. How does the neuroendocrine system help in its regulation?
  5. How do insects process and excrete their nitrogenous waste? Explain the mechanism in aquatic and terrestrial insects.
  6. Give a broad outline classification of insects up to orders with suitable examples. Add a note on the characteristic features of economically important orders.