

A-938

Total Pages : 3

Roll No.

MSCZO-611

**ENTOMOLOGY (MORPHOLOGY,
PHYSIOLOGY AND DEVELOPMENT
BIOLOGY)**

M.Sc. Zoology (MSCZO)

4th Semester Examination, 2024 (June)

Time : 2:00 Hrs.

Max. Marks : 70

Note :- This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

Section-A

Long Answer Type Questions 2×19=38

Note :- Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

1. Describe a typical integument of insect.
2. Discuss the important characters of the order coleopteran and discuss the importance of this order.
3. Describe a generalized structure of reproductive system in insects.
4. What modifications are found in the antennae of the insects ?
5. Describe a generalized structure of respiratory system in insects..

Section–B

Short Answer Type Questions 4×8=32

Note :- Section ‘B’ contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Describe the biting and chewing type mouth parts of insects.
2. Describe the Sucking type mouth parts of insects.
3. Short note :
 - (a) Ommatidium of insect
 - (b) Auditory organs
4. Explain the different type of larvae, pupa and metamorphosis in insects.

5. Describe the exocrine and endocrine glands of insects.
6. Short note :
 - (a) Sex pheromones
 - (b) Courtship pheromones
7. Write a short note on diapause.
8. Describe the typical eyes of insects.
