

**A-0110**

**Total Pages : 3**

**Roll No. ....**

**MSCZO-610**

**M.Sc. ZOOLOGY (MSCZO)**

**[Entomology (Systematic and Applied Entomology)]**

**4th Semester Examination, Session December 2024**

**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. Write in details about the structure, habit and habitat of the order Orthoptera.
2. Describe Mulberry and Non -Mulberry Silkworm types and rearing in detail.
3. Discuss about the family of beetle which is known for feeding upon aphids ?
4. Write some morphological difference between the family Chironomidae and culicidae ?
5. Write about the family of wasp which is known for their social behaviour.

### **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. Write an account of Termites as a social insect.
2. Comment upon the modification of wing in order heteroptera.
3. Write an account on the phylogeny of insects.

4. Write the name of arthropods which related to insects.
5. Explain Insect's collection Method.
6. How is silk extracted from cocoons ?
7. How long does a honey bee live ? How long does a queen live ?
8. Write the economics of lac production in India.

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