



K24P 3165

Reg. No. :

Name :

III Semester M.Sc. Degree (C.B.C.S.S. – OBE – Regular)
Examination, October 2024
(2023 Admission)
ZOOLOGY
Elective Course
MSZGY03 E02 : General Entomology

Time : 3 Hours

Max. Marks : 60

PART – A

Answer **any five** of the following. **Each** question carries **3** marks.

1. What are the key diagnostic features of Coleoptera ?
2. Describe the role of stridulatory organs in Orthoptera.
3. What are the characteristics of the Apterygota group ?
4. Explain the structure and function of insect antennae.
5. Briefly describe the process of respiration in aquatic insects.
6. What is the significance of galls and how do they form ?

(5×3=15)

PART – B

Answer **any three** of the following. **Each** question carries **6** marks.

7. Explain the mating behavior of Odonata and its evolutionary importance.
8. Discuss the economic importance of Lepidoptera in agriculture.
9. How do parasitic insects adapt their morphology to host environments ?
10. Create a comparison of hemimetabolous and holometabolous insect development.
11. Discuss the role of social organization in honey bee colonies.

(3×6=18)

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PART – C

Answer **any three** of the following. **Each** question carries **9** marks.

12. Apply insect morphology to explain the role of leg modifications in predatory insects.
13. Analyze the communication systems in insects and their role in colony organization.
14. Compare and contrast the feeding adaptations of leaf-mining and gall-forming insects.
15. Explain the role of environmental factors in the adaptations of parasitic insects to different hosts.
16. Evaluate the success of biological control measures using parasitic insects, with examples from hymenoptera.

(3×9=27)