

May 2025
M.Sc.
Fourth Semester
DISCIPLINE SPECIFIC ELECTIVE – 03
ZOOLOGY
Course Code: MZOD 4.11 (D)
(Entomology - II)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Explain the various types of voltinism in insects with examples.
What are the factors influencing voltinism? 9+5=14
2. Give an account of polyethism in honey bee. Write a brief note on insect parasites. 9+5=14

UNIT-II

3. Describe the life cycle of silk moth. Write the composition and uses of silk. 7+7=14
4. How do insects pollinate? Explain some key insect pollinators. Add a note on ecological and economic importance of insect pollination. 3+7+4=14

UNIT-III

5. Explain how insects attain the status of pest. Write the various types of insect pests. What are the factors contributing to pest outbreaks? 3+6+5=14
6. Write a note on each of the following: 7×2=14
 - (a) Use of pheromone to control insect pest
 - (b) Uses of chemicals to control insect pest

UNIT-IV

7. Describe the life cycle, damage, and control of *Sitophilus oryzae*. 14

8. Explain the various types and damage caused by plant feeding insect. 14

UNIT-V

9. Write the life cycle, damage, and control of flea. 14
10. Write the life cycle, damage, and control of housefly. 14
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