

2022
M.Sc.
Third Semester
DISCIPLINE SPECIFIC ELECTIVE – 01
ZOOLOGY
Course Code: MZOD 3.11 (D)
(Entomology – I)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Explain the different types of insect mouthparts. 14
2. Describe the structure and variation of insect genitalia. 14

UNIT-II

3. Discuss the structure and types of muscles in insects. Add a note on flight mechanism. 14
4. Explain the structure of tracheal system in insects. Write the mechanism of respiration in terrestrial insect. 8+6=14

UNIT-III

5. Describe the structure and types of a compound eye. 8+6=14
6. Define juvenile hormone. Write its effect on male and female gonads in insects. 2+12=14

UNIT-IV

7. Explain the various chemical composition of cuticle. 14
8. Write notes on chemistry and functions of haemolymph. 14

UNIT-V

9. Explain the three patterns of development in insect. 14
10. Describe the hormonal control in moulting and metamorphosis in insect. 14
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