

2021
M.Sc
Third Semester
DSE – 01
ZOOLOGY
Course Code: MZOD 3.11 (D)
(Entomology - I)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT-I

1. With suitable diagrams explain the structure and modification insect antennae. 4+10=14
2. Explain the various parts of generalized insect legs. Add a note on its modification. 5+9=14

UNIT-II

3. Write the role of malpighian tubule in insect. Add a note on nitrogenous waste in respect to terrestrial insect. 10+4=14
4. Explain the alimentary canal and digestive glands associated in detail. 9+5=14

UNIT-III

5. Discuss the various parts of brain and ventral nerve cord of insect. 8+6=14
6. Write the role of corpora allata, corpora cardiaca and prothoracic gland as an insect endocrine gland. 14

UNIT-IV

7. Explain the immune activity of haemocytes. 14
8. Briefly explain the proline and trehalose metabolism in insect. 7+7=14

UNIT-V

9. Explain the metamorphosis and immature stages in insects. 14
10. Describe the biosynthesis and mode of action of ecdysteroid. 7+7=14
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