

2023
B.A./B.Sc.
Second Semester
CORE – 3
ZOOLOGY
Course Code: ZOC 2.11
(Non-Chordates - II: Coelomates)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Discuss in detail the evolution and types of metamerism in coelomates. 7+7=14
2. Explain in detail the level of organization in coelomates with suitable examples and diagrams. 10+4=14

UNIT-II

3. Give the classification of the phylum Annelida up to classes. State the affinities of Onychophora with Annelida & Arthropoda. 7+7=14
4. (a) Explain the locomotory structures with diagrams in annelids. 7
(b) Write the general characteristics of annelids. 7

UNIT-III

5. Explain the larval forms of Crustacea with suitable diagrams. 14
6. (a) Briefly explain the respiration in Arthropods with examples. 7
(b) Write the general characteristics of Arthropods. 7

UNIT-IV

7. Give the classification of the phylum Mollusca. Write a note on its respiration. 7+7=14

8. (a) Explain torsion and detorsion in gastropods with diagrams. 7
(b) Explain the mode of pearl formation in bivalves with diagrams. 7

UNIT-V

9. Give the general characteristics of Echinodermata and classify upto classes. 7+7=14
10. (a) Describe the water-vascular system in Asteroidea. 7
(b) Write the affinities of echinoderms with chordates. 7
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