

2024
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. Explain in detail the theories of the evolution of coelom. Analyse the significance of coelom in triploblastic organisms. 9+5=14
2. (a) Explain the level of organization in coelomates with suitable examples. 7
 (b) Describe the different types of metamerism in coelomates. 7

UNIT-II

3. Give any 14 general characteristics of phylum Annelida. Classify phylum Annelida up to classes giving the important characters of each class with examples. 7+7=14
4. Analyse the evolutionary significance of Onychophora with Arthropoda and Annelida. Add a note on the distinctive characteristics features of Onychophora. 10+4=14

UNIT-III

5. What is metamorphosis? Give an account on the metamorphosis in insects with suitable diagrams and examples. 2+12=14
6. (a) Explain vision in arthropods with a labelled diagram. 7
 (b) Discuss the social life of honeybee. 7

UNIT-IV

7. Write any 12 general characters of phylum Mollusca and its classification up to classes giving the identifying characters of each class with examples. 6+8=14
8. (a) Explain torsion and detorsion in gastropods with diagrams. 7
(b) Give the evolutionary significance of trochophore larva. 7

UNIT-V

9. Explain in detail the structure of water-vascular system in Asterozoa with appropriate diagram. Write a note on the function of the water vascular system in echinoderms. 12+2=14
10. Mention any 12 general characters of phylum Echinodermata. Explain any 4 types of larval forms in Echinodermata. 6+8=14
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