

**2022**  
**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. Write in detail the evolution and types of metamerism. 14
2. (a) Write a note on the significance of coelom with neat labeled diagrams. 7
- (b) Explain the levels of organization in the coelomates with examples. 7

**UNIT-II**

3. Describe the general features and classification of phylum Annelida with examples. 14
4. (a) Explain the evolutionary significance of Onychophora. 7
- (b) Write a short note on economic importance of annelids. 7

**UNIT-III**

5. Describe the metamorphosis in insects with suitable diagrams and examples. 14
6. (a) Explain briefly with suitable diagram of insect's vision with the compound eye. 7
- (b) Discuss the social life of honey bee. Mention four economic importance of honey bee. 7

## UNIT-IV

7. Write the general characters of the phylum Mollusca and its classification. 14
8. (a) Describe the mode of formation of pearls in bivalves with diagrams. 7
- (b) Give the evolutionary significance of trochophore larva. 7

## UNIT-V

9. (a) Explain the classification of Echinodermata. 7
- (b) Discuss the larval forms of Echinodermata. 7
10. Discuss the water-vascular system in Asteroidea with suitable diagrams. 14

---