

**April 2025**  
**B.A./B.Sc.**  
**Second Semester**  
**MAJOR – 2**  
**ZOOLOGY**  
*Course Code: ZOM 2.11*  
(Non-Chordates - II: Coelomates)

Total Mark: 50

Pass Mark: 20

Time: 2 hours

I. Answer three questions, taking one from each unit.

**UNIT-I**

1. Enumerate the primary locomotory organs in annelids. Mention the role of circular and longitudinal muscle in locomotion. 8+4=12
2. Explain the mode of reproduction in annelids. Add a note on types of coeloms. 8+4=12

**UNIT-II**

3. Classify the phylum Arthropoda up to the class level, giving diagnostic characters and common examples of each group. 12
4. Give an account of various types of respiratory organs found in Arthropoda. 12

**UNIT-III**

5. Illustrate the process of pearl formation in bivalves. 12
6. Explain the phenomenon of torsion in gastropods with a diagram. 12

II. Answer any two of the following questions.

7. Discuss the social life of termites. 7
8. Explain the significance of metamerism. 7
9. Give any 12 general characteristics of the phylum Echinodermata with examples. 7