

B.Sc. Part-II
Paper-I Structure and Function of Invertebrate Types

A. Short answer type questions

1. What is the function of organs of Bojanus in *Unio*?
2. Mention the physiological role of osphradium.
3. All the gill filaments of lamina of *lamellidens* are similar, is called-
4. In crustaceans larva which organ acts as excretory organs?
5. Define beehive.
6. What are malpighian tubules?
7. Write a short note on stone canal.
8. Write economic importance of termites.
9. What is hemocyanin?
10. Give the name of abdominal appendages of *Palaemon*.
11. What is cannibalism?
12. Define molting or ecdysis.
13. Define Endosternite of Scorpion.
14. What are the morphological adaptations in helminthes?
15. Write the name of three species of termites.

B. Descriptive type questions

1. What is a compound eye? Give the microscopic structure of the eye of Prawn and explain the theory of mosaic vision.
2. Describe the life history and economic importance of honey bee.
3. Explain the water vascular system of a starfish and comments upon its utility.
4. Give an account of nervous system of *Unio* and compare it with that of *Pila*.
5. Write an essay on metamorphosis in insects.
6. Describe the excretory organs of Scorpion.
7. Describe the organs and mechanism of respiration in Prawn.
8. Describe social life in termites.
9. Describe the larval forms met within crustacean.
10. Describe the respiratory organs of *Pila* and explain how they are adapted for its mode of life.