

B.Sc. DEGREE EXAMINATION - NOVEMBER 2016  
BRANCH VIA. ADVANCED ZOOLOGY AND BIOTECHNOLOGY  
FIRST SEMESTER

COURSE : MAJOR CORE  
PAPER : INVERTEBRATA  
TIME : 3 HOURS

MAX. MARKS: 100

**SECTION A**

**ANSWER ALL QUESTIONS:**

**(10 X 3 =30)**

1. Give the function of the following: a) Trichocyst b) Pedicellaria c) Green gland
2. Give the causative organism for the following:  
a) Amoebiasis b) Malaria c) Taeniasis
3. Connect the larval form with adult :  
a) Bipinnaria b) Nauplius c) Amphiblastula
4. Differentiate between polyp and medusa
5. Comment on the medicinal significance of leech.
6. Define the following: a) Metamerism b) Polymorphism
7. Draw a neat labeled diagram of a mature poroglottid.
8. Mention any three economically important molluscs.
9. Give any three adaptations of polychaetes.
10. Draw and label a typical appendage of Prawn.

**SECTION B**

**ANSWER ANY FIVE QUESTIONS:**

**(5 x 6 = 30)**

11. With the help of a neat labeled diagram explain the structure of *Paramecium*
12. Write the economic importance of Porifera (any 6).
13. Explain the life cycle of *Wucheria bancrofti*.
14. Comment on the phylogenetic significance of *Peripatus*.
15. Draw and explain the nervous system of *Pila*.
16. Draw and explain the modification of mouth parts in house fly.
17. Write the impact of environment on Coral reefs.

**SECTION C**

**ANSWER ANY TWO QUESTIONS:**

**(2 x 20 = 40)**

18. Give an account of locomotion in Protozoa.
19. Describe the canal system of sponges.
20. Discuss the social life of insects.
21. Draw and describe the water vascular system of starfish.