

SUBJECT CODE: 15ZL/MC/IV14

B.Sc. DEGREE EXAMINATION - NOVEMBER 2017  
BRANCH VI.A. 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. Comment on the gemmule of a sponge.
2. What is radula? In which animal is it present?
3. Highlight the significance of crop in *Hirudinaria*.
4. Differentiate between the mouth parts of a butterfly and mosquito.
5. Comment on the mode of infection of *Entamoeba*.
6. Distinguish between paraeopods and pleopods.
7. Draw a neat labeled diagram of the Medusa of *Obelia*.
8. Comment on statocyst.
9. Give the causative organism and any two symptoms of Elephantiasis.
10. What are Pheromones? Highlight their significance.

**SECTION-B**

**ANSWER ANY FIVE QUESTIONS:**

**(5 x 6 = 30)**

11. "Honey bee is a social insect." Discuss.
12. Write short notes on canal system in sponges.
13. Discuss the affinities of *Peripatus*.
14. Write detailed notes on locomotion in *Amoeba*.
15. Write notes on a. *Ancylostoma duodenale*                      b. *Enterobius vermicularis*
16. Describe the larval forms of Echinodermata and their significance
17. Give an outline classification of the Animal Kingdom.

**SECTION-C**

**ANSWER ANY TWO QUESTIONS:**

**(2 x 20 = 40)**

18. Give an account of conjugation in *Paramecium* and discuss its significance.
19. How are corals formed? Give an account of corals and coral reefs and their conservation.
20. Give an account of the life cycle of *Taenia solium* highlighting its characteristic features.
21. Discuss the water-vascular system and its importance.

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