

**Roll No :-**

**3567**

**M.Sc. (Zoology) (SEMESTER-II)  
EXAMINATION, 2019  
SIXTH PAPER  
STRUCTURE AND FUNCTION OF  
INVERTEBRATES**

**Time Allowed - Three Hours  
Maximum Marks - 50**

**Note: The questions paper is divided into three parts,  
Part-A, Part-B and Part-C.**

**Part-A (Compulsory) {Marks:10}**

*Part A is compulsory and contains 10 questions (50 words each). Each question is of 1 mark.*

**Part-B (Compulsory) {Marks:10}**

*Part-B is compulsory and contains five questions at least one from each unit. Candidate is required to attempt all five questions. Each question is of 2 marks (100 words).*

**Part-C {Marks:30}**

*Part-C contains six questions two from each unit. Candidate is required to attempt three questions. one from each unit . Each question is of 10 marks (400 words).*

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**Part-A (Compulsory)**

1. What is the role of infraciliary system in the locomotion of ciliates?
2. What type of feeding occurs in bivalve molluscs?
3. Give one example of a sanguivorens invertebrate.
4. How many types of nephridia are found in earth worms? Write their names.
5. What is the main difference between nerve networks of hydroids and medusoids?
6. Write name of any one animal in which parthenogenesis occurs very often.
7. Write names of any two hormones which participate / involved in insect moulting.
8. What is the function of antennary glands in crustaceans?
9. What is the difference between ganglion and brain?
10. What is the main difference between ectoprocta and entoprocta?

**Part-B**

11. Comment upon psuedocoelomic body organization.
12. Describe locomotion in earthworm.
13. Discuss affinities of Rotifera.

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14. What type of photoreceptors are found in Arthropods?
15. What is the role of coelomoducts in excretion? How they perform it?

**Part-C**  
**Unit-I**

16. Discuss various molecular and physiological mechanisms involved in various kinds of movements in invertebrates.
- 17- Discuss food and feeding mechanisms in echinodermata.

**Unit-II**

- 18- Describe various types of tracheal systems found in invertebrates. <https://www.mdustudy.com>
- 19- Differentiate between various types of nervous systems found in Annelida, Crustacea and cephalopoda.

**Unit-III**

- 20- Discuss evolutionary significance and structure of free living marine larval forms of invertebrates.
- 21- How Asexual reproduction occurs in coelenterate and Polychaeta? Explain with diagrams.