

B.Sc. (CBCS Pattern) Sem-II  
**USZOT03 - Zoology Paper-I - Core Paper-III –**  
**Animal Diversity of Nonchordate : Arthropoda to Hemichordata**

P. Pages : 1

Time : Three Hours



**GUG/W/22/11594**

Max. Marks : 50

- Notes :
1. All questions are compulsory.
  2. All questions carry equal marks.
  3. Draw well-labelled diagram wherever necessary.

1. Write an essay on female Reproductive system of Cockroach. Add a note on Ootheca formation. 10
- OR**
- Write notes on:
- a) Sense organs in cockroach 5
  - b) Salivary gland of cockroach 5
2. Describe the Digestive system of pila. 10
- OR**
- Write notes on:
- a) Pearl formation 5
  - b) Nervous system of Pila. 5
3. Write an essay on Digestive system of Asterias. 10
- OR**
- Write notes on:
- a) Bipinnaria larva 5
  - b) General characters of Echinodermata. 5
4. Write an account on affinities of Balanoglossus. 10
- OR**
- Write notes on:
- a) Tornaria Larva. 5
  - b) Digestive system of Balanoglossus. 5
5. Write 4 to 5 lines on the following **any ten**. 10
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|-----------------------|-------------------|
| i) Mandibles          | ii) Hepatic Caeca |
| iii) Testis           | iv) Foot          |
| v) Osphradium         | vi) Vagina        |
| vii) Pedicellariae    | viii) Tube feet   |
| ix) Ambulacral groove | x) Collar         |
| xi) Protoceol         | xii) Ciliary Band |

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