

B.Sc.- I (CBCS Pattern) Semester-II
**USCZOT03 - Core Paper-III - Zoology Paper-I - Animal Diversity of
Non-chordate - Arthropoda to Hemichordata**

P. Pages : 1

Time : Three Hours



GUG/W/24/11594

Max. Marks : 50

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

1. Explain the Digestive system of *Periplaneta* and add note on its mouth parts. **10**

OR

- a) Nervous system of *Periplaneta*.
- b) Circulatory system of Cockroach.

2. Write an account on the Male Reproductive system in *Pila*. **10**

OR

- a) Nervous system of *Pila*.
- b) Pearl formation in Mollusca.

3. Describe in detail the water vascular system of *Asterias* with its significance. **10**

OR

- a) Regeneration and autotomy in Echinodermata.
- b) Bippinaria larva

4. Explain in detail the affinities of *Balanoglossus*. **10**

OR

- a) Nervous system of *Balanoglossus*.
- b) Coelom of *Balanoglossus*.

5. Write four to five lines on **any ten**. **10**

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|--------------------|--------------------------|
| i) Labrum | ii) Conglobate gland |
| iii) Gizzard | iv) Ctenidium |
| v) Radula | vi) Pleuropedal Gomglion |
| vii) Madreporite | viii) Pyloric stomach |
| ix) Pedicellariae | x) Proboscis |
| xi) Tornaria larva | xii) Collar |
