

M.Sc. (Zoology) (NEP Pattern) Semester-I  
**NEP-81 / 01MSCZO01 - Paper-I - Structure and function of Invertebrates**

P. Pages : 1

Time : Three Hours



**GUG/S/25/15143**

Max. Marks : 80

- Notes :
1. All questions are compulsory.
  2. All questions carry equal marks.
  3. Illustrate your answer with suitable diagram.

1. Give detail account on ultrastructure of protozoan locomotory organ and write a note on various modes of locomotion. 16

**OR**

Write notes on:

- a) Skeletal organization in Calcareous sponges. 8
  - b) Species concept and nomenclature. 8
2. Structure and Mechanism of reproduction in Taenia. 16

**OR**

Write notes on:

- a) Syncytial and Molecular theories. 8
  - b) Evolution and significance of coelom. 8
3. Give detail account on Mechanism of gaseous exchange in Insecta. 16

**OR**

Write note on:

- a) Affinities and taxonomic position of peripatus. 8
  - b) Neuroanatomy in Gastropoda. 8
4. Give detail account on Metamorphosis and phylogenetic significance of Echinodermata. 16

**OR**

Write note on:

- a) Structure water vascular system of Echinodermata. 8
  - b) Affinities of Entoprocta. 8
5. Attempt the following.
- a) Types of Polyp's 4
  - b) Types of Nitrogenous Excretory Product. 4
  - c) Structure of Neopilina. 4
  - d) Affinities of Rotifera. 4

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