

M.Sc. (Zoology) (CBCS Pattern) Semester-I
PSCZOOT01 - Paper-I - Animal Structure and Function - Invertebrates

P. Pages : 1

Time : Three Hours



GUG/W/24/11175

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Illustrate your answers with well labelled diagrams wherever necessary.

- 1. Give an detail account on ultrastructure of Protozoan locomotory organs. 16**

OR

Write notes on:

- a) Classical and molecular taxonomic parameters. 8
- b) Skeletal organization in calcareous sponge. 8

- 2. Describe Evolution of nephridia and Mechanism of Excretion. 16**

OR

Write notes on:

- a) Mechanism of Reproduction in Ascaris. 8
- b) Types of symmetry in coelomates. 8

- 3. Give a detail account on structure of Peripatus and its affinities. 16**

OR

Write notes on:

- a) Affinities of Peripatus. 8
- b) Neuroanatomy in Gastro Poda. 8

- 4. Describe in detail Ambulacral in Echinodermata. 16**

OR

Write notes on:

- a) Metamorphosis in Echinodermata. 8
- b) Ctenophora. 8

- 5. Attempt the following. 16**

- a) Types of Polyp's.
- b) Molecular theory with regards to metazoan origin.
- c) Taxonomic position of Neopilina.
- d) Ectoprocta.
