

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

P. Pages : 1

Time : Three Hours



GUG/S/25/11175

Max. Marks : 80

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

1. Write an account on ultrastructure, of protozoan locomotory organs Add note on flagellar locomotion. **16**

OR

Write notes on:

- a) Types of polyps and Medusae.
- b) Dermal cells and skeletal organization in calcareous and Hexactinellida sponges.

2. Give an account on evolution of Nephridia and mechanism of excretion in polychaeta. **16**

OR

Write notes on:

- a) Reproductive system in Fasciola and Taenia.
- b) Coelome formation and evolution.

3. Write an account on structure affinities and taxonomic position of Neopilina. **16**

OR

Write notes on:

- a) Neuroanatomy in Bivalvia.
- b) Structure of peripatus.

4. Write an account on Larval forms in Echinodermata. **16**

OR

Write notes on:

- a) Water Vascular System of Asterias.
- b) General account & affinities of rotifera.

5. Attempt the following. **16**
- a) Species concept.
 - b) Colonial theory of metazoan origin
 - c) Tracheal respiration.
 - d) Entoprocta.
