

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

P. Pages : 1

Time : Three Hours



GUG/W/18/11175

Max. Marks : 80

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

1. Describe the ultrastructure of protozoan locomotory organs. 16

OR

Write notes on:

- a) Systemic gradation of animals. **8**
- b) Skeletal organisation in calcareous sponges. **8**

2. Describe in detail the theories of metazoan origin. 16

OR

Write notes on:

- a) Mechanism of reproduction in Fasciola. **8**
- b) Mechanism of excretion in polychaeta. **8**

3. Give detailed structure and affinities of Peripatus. 16

OR

Write notes on:

- a) Respiratory organs in Arthropoda. **8**
- b) Structure and affinities of Neophilia. **8**

4. Write in detail the general account and affinities of Ctenophore. 16

OR

Write notes on:

- a) Function of water vascular system in echinodermata. **8**
- b) Metamorphosis in Echinodermata. **8**

5. Attempt the following. 16

- a) Medusae.
- b) Significance of coelom.
- c) Gill respiration in crustacea.
- d) Ectoprocta.
