

M.Sc. (Zoology) (NEP Pattern) Semester-I
01MSCZOO1 - Core DSC Paper-I - Structure and function of Invertebrates

P. Pages : 1

Time : Three Hours



GUG/W/24/15143(S)

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw a well labelled diagram whenever necessary.

- 1. Discuss in details the Polymorphism and metagenesis in Coelenterate. 16**

OR

Write notes on:

- a) Species concept and systematic gradation in animals. **8**
- b) Mechanism of various modes of locomotion. **8**

- 2. Give an account on Evolution of nephridia. Add a note on mechanisms of excretion in polychaeta. 16**

OR

Write note on.

- a) Coelom formation and its significance. **8**
- b) Mechanism of reproduction in Dugesia. **8**

- 3. Discuss Neuroanatomy with reference to Gastropoda and Cephalopoda. 16**

OR

Write note on.

- a) Gill respiration in Crustacea. **8**
- b) Neopilina -Structure and affinities. **8**

- 4. Discuss in details on Larval forms in Echinodermata. 16**

OR

Write notes on:

- a) Structure and Affinities of Ctenophora **8**
- b) Structure and Affinities of Entoprocta **8**

- 5. Attempt the following. 16**

- a) Skeletal organization calcareous sponges.
- b) Syncytial and molecular theory.
- c) Tracheal respiration
- d) Affinities of ectoprocta
