

Attempt FIVE Questions in all. Section-A is Compulsory. Select FOUR Questions from Section-B.

Section-A

1- Write short answers to the following questions:

1x8

- i) Which organism comprise ARCHAEA?
- ii) Define Schizogony.
- iii) What are Choanocytes?
- iv) What are Malpighian Tubules?
- v) Name the disease caused by Truchinella.
- vi) What is a Glochidium?
- vii) What is the function of Coxal Glands?
- viii) What is the function of Pedicellarie?

Section-B

- 2- a) Differentiate between Sympleiomorphies and Synapomorphies. 3.5
 b) Describe the life cycle of Fasciola Hepatica. 4
- 3- a) Write a note on Honey Bee as a social insect. 3.5
 b) Give an account of Conjugation in Paramecium. 4
- 4- a) What are the characteristics of Phylum Mollusca? 3.5
 b) Write a detailed account on Tracheal System of an insect. 4
- 5- a) Write a note on Excretion in Annelida. 3.5
 b) Give an account of Digestive System and Mode of Feeding in Sea Star. 4
- 6- a) Write a note on Corals and Coral Reefs. 3.5
 b) Write a note on Insect Flight. 4
- 7- a) What is the importance of insects to humans? 3.5
 b) What is Epitoky? Why is it advantageous for some Polychaetes? 4
- 8- a) Describe alteration of generation in phylum cnidaria. 4
 b) Write a note on importance of nematode parasites. 3.5
- 9- Write notes on the following: 2.5, 2.5, 2.5
 - a) Tagmatization
 - b) Eutely
 - c) Holometabolous Metamorphosis