

[Time: 3Hours]

[Marks:100]

Please check whether you have got the right question paper.

- N.B:
1. All questions are compulsory.
 2. Figures to the right indicate full marks.
 3. Draw neat and labeled diagram wherever necessary.
 4. Answer the questions in order.

Q.1 Attempt **any two:** **20**

- a. Explain in detail the different levels of organization from cell to organism.
- b. Give an account of metamerism.
- c. Describe the characteristic features of different phyla and classes of subkingdom Protozoa and name one example from each class.

Q.2 Attempt **any two:** **20**

- a. Describe in detail the characteristic features of phylum Porifera and add a note on class Calcarea.
- b. Enlist the salient features of phylum Platyhelminthes and explain class Turbellaria with example.
- c. Give a detailed classification of phylum Cnidaria with examples from each class.

Q.3 Attempt **any two:** **20**

- a. Classify phylum Annelida with salient features and description of one example from each class.
- b. Give a detailed account of class Gastropoda and class Pelecypoda and describe one example from each.
- c. Describe the example of class Chilopoda and class Diplopoda of phylum Arthropoda with salient features of both classes.

Q.4 Attempt **any two:** **20**

- a. Describe the general characters, classification, habitat and habit of *Sepia*.
- b. Give an account of digestive system of *Sepia* with neat labeled diagram.
- c. Explain the respiratory and excretory systems of *Sepia*.

Q.5 Attempt **any four:** **20**

- a. Define coelom and explain its formation by different methods.
- b. Describe Miracidium and Redia larvae of liver fluke.
- c. Write a note on *Taenia solium*.
- d. Describe class Holothuroidea with example.
- e. Describe *Peripatus* and explain it as a connecting link.
- f. Explain the female reproductive system of *Sepia*.
