

Duration 3 Hours

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 marks.
 3. Draw neat labelled diagram wherever necessary.
 4. Answer the questions in order.

- Q. 1 Attempt any two:** (20)
- a) Give a detailed account of symmetry. (10)
 - b) Explain the difference between unicellularity, colonisation and multicellularity. (10)
 - c) Describe in detail the six kingdom classification. (10)
- Q. 2 Attempt any two:** (20)
- a) Describe in detail general characters of phylum Cnidaria. Add a note on class Hydrozoa. (10)
 - b) Explain the life history of *Fasciola hepatica*. (10)
 - c) Describe in detail the different classes of Porifera with example from each class. (10)
- Q. 3 Attempt any two:** (20)
- a) Explain in detail the characteristics of subphylum Crustacea and add a note on class Malacostraca. (10)
 - b) Describe the example from each of the five classes of phylum Echinodermata. (10)
 - c) Give an account of distinguishing features and examples of class Scaphopoda and class Cephalopoda. (10)
- Q. 4 Attempt any two:** (20)
- a) Describe the external characters of *Sepia* with neat labelled diagram. (10)
 - b) Describe the circulatory system of *Sepia*. (10)
 - c) Give an account of male and female reproductive systems of *Sepia*. Add a note on copulation and fertilization. (10)
- Q. 5 Attempt any two:** (20)
- a) Explain the types of true metamerism. (05)
 - b) Describe class Polychaeta. (05)
 - c) Explain characteristic features of class Insecta with example. (05)
 - d) Describe *Ascaris*. (05)
 - e) Describe phylum Chaetognatha with example. (05)
 - f) Explain the structure of eye of *Sepia*. (05)
