

B.Sc. Part-I
Paper-I Diversity of Animals

A. Short answer type questions

1. Define molecular taxonomy.
2. What is the biological species concept?
3. Give the classification of *Obelia*?
4. What is metameric segmentation?
5. Give names of any two pathogenic protozoans.
6. What do you mean by polymorphism?
7. Who gave the five kingdom scheme of classification?
8. In which segments of earthworm is clitellum present?
9. Differentiate between Protostomes and Deuterostomes.
10. Write any three characters of phylum Porifera.
11. Define cladistics.
12. Who is known as the father of taxonomy?
13. Define alternation of generation.
14. Name the excretory organ found in Phylum Platyhelminthes.
15. What is the causal organism of sleeping sickness?
16. Give the classification of *Nereis*.
17. Write names of various larval forms of *Fasciola hepatica*
18. What is osmoregulation?
19. Write the habit and habitat of *Leucosolenia* in *Euglena*.
20. Define Schizocoelous.

B. Long answer type questions

1. Discuss the Five kingdom scheme of classification.
2. Write the general characters of Phylum Coelenterate. Classify up to sub-orders with examples.
3. Describe the basis of classification of non-chordata and chordata.
4. Write the general characters of Phylum Platyhelminthes. Classify in detail and give suitable examples.
5. Describe the life cycle of *Nereis* in detail.
6. Give a detailed account of the structure of *Fasciola* and comment upon its parasitic adaptations.
7. Describe structure, mode of feeding and reproduction in *Aurelia*.
8. Describe the life history and economic importance of *Ascaris*.
9. Write notes on-
 - a) Conjugation in *Paramecium*
 - b) Osmoregulation in *Amoeba* and *Euglena*
 - c) ICZN
10. Write short notes on-
 - a) Symmetry

- b) Concept of Protozoa and Metazoa
- c) Molecular Taxonomy