

2024-28

Full Marks : 75

Time : 3 Hours

Candidates are required to give their answer in their own words as far as practicable. Their figures in the margin indicate full marks.

Answer from **both** the Sections as directed.

Section – A

(Compulsory)

1. Choose the **correct** option: 1×5=5

(a) A method of classifying organisms on the basis of observable similarities is known as

- (i) Phenetics
- (ii) Cladistics
- (iii) Taxonomy
- (iv) None

- (b) Cell eating is also known as
- (i) Phagocytosis
 - (ii) Cyclosis
 - (iii) Pinocytosis
 - (iv) All of these
- (c) First larval form of liver Fluke is
- (i) Redia
 - (ii) Sporocyst
 - (iii) Cercaria
 - (iv) Miracidium
- (d) Water vascular system is modified form of
- (i) Coelom
 - (ii) Dermis
 - (iii) Intestinal system
 - (iv) None of these
- (e) Migration of fishes from freshwater to seawater for spawning is
- (i) Anadromous
 - (ii) Catadromous
 - (iii) Amphidromous
 - (iv) None of these

2. Write short notes on any **one** : 1×5=5
- (a) Difference between Taxonomy and systematics
 - (b) Tree of life
 - (c) Locomotion in protists
3. Write in brief note on any **one** : 1×5=5
- (a) Biting mechanism in Snakes.
 - (b) Miracidium larva

Section - B

Answer any **four** in long : 15×4=60

4. Explain with suitable diagram about canal system in Porifera.
5. Discuss water vascular system in echinoderms in detail. Add a note on its function.
6. Elaborate Alteration of Generation in Cnidarians.
7. Give a detail account of life cycle of *Ascaris lumbricoides*.

8. Discuss vision in Arthropods.

OR

Describe parental care in Amphibians.

9. Discuss migration in fishes in detail.

10. Enlist various flight adaptations in birds. Add in brief flying mechanism in birds.
