

**2024
(Session : 2022-26)**

Time : 3 hours

Full Marks : 60

*Candidates are required to give their answers in
their own words as far as practicable.*

The figures in the margin indicate full marks.

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

Section – A

1. Choose the correct answer of the following :

1×10 = 10

(a) The Contractile Vacuole in protozoans is chiefly concerned with the process of :

- (i) Digestion
- (ii) Osmoregulation
- (iii) Excretion
- (iv) Respiration

(b) Nematocysts of hydra are important for :

- (i) Catching prey
- (ii) Paralysing prey
- (iii) Testing the quality of water
- (iv) Testing the quality of food

(c) Pineal setae are present in :

- (i) Earthworm (ii) Cockroach
- (iii) Annelida (iv) Male Ascaris

(d) Metamerism is characteristics of :

- (i) Platyhelminthes (ii) Nematoda
- (iii) Annelida (iv) Arthropoda

(e) Vision of Cockroach is :

- (i) Monocular (ii) Binocular
- (iii) Mosaic (iv) All of these

(f) Which of the following is cold blooded animal ?

- (i) Frog (ii) Human
- (iii) Dog (iv) None of these

(g) What is the common name of a devilfish ?

- (i) Loligo (ii) Sepia
- (iii) Teredo (iv) Octopus

(h) Aristotle lantern is found in :

- (i) Jelly fish
- (ii) Sea anemone
- (iii) Sea lily
- (iv) Sea urchin

(i) Which animals have a beak with jaws but no teeth ?

- (i) Aves
- (ii) Snakes
- (iii) Mammals
- (iv) All of these

(j) Chordates with a backbone are called :

- (i) Protochordates
- (ii) Invertebrates
- (iii) Vertebrates
- (iv) All of these

Section - B

2. Answer any **one** of the following : 5

(a) Give an account of the process of Osmo-regulation in Protozoa.

- (b) Explain Polymorphism.
- (c) Metamerism
- (d) What is Neoteny ?
- (e) Characteristic features of Mammal

Section – C

Answer any **three** questions of the following :

15×3 = 45

3. Give an account of the Canal System in Sycon.
4. What is Parasitism ? Give an account of parasitic adaptation of Taenia.
5. Write the characteristic features of Phylum Annelida and classify upto classes with examples.
6. Describe the water vascular system of Asteroidea.
7. Give an account of parental care in Amphibia.
8. Write the differences between poisonous and non-poisonous snakes with examples.

