

2023

Time - 3 hours

Full Marks - 60

*Answer **all groups** as per instructions.*

Figures in the right hand margin indicate marks.

Draw labelled diagrams wherever necessary.

GROUP - A

1. Fill in the blanks. (all) [1 × 8]
- (a) Spongocoel is lined with the cells named _____.
 - (b) Malaria is caused by _____.
 - (c) Dance found in honey bee is called _____.
 - (d) Most valuable pearls are obtained from _____ species.
 - (e) Hilsa shows _____ type of migration.
 - (f) _____ is connecting link between reptiles and aves.
 - (g) Limbless amphibia are called _____.
 - (h) Tusk of elephant is modified _____ teeth.

[2]

GROUP - B

2. Answer any eight of the following within two or three sentences each.

[1½ × 8

- (a) What is parasitism ?
- (b) What is polymorphism ?
- (c) What are deuterostomes ?
- (d) What is metamerism segmentation ?
- (e) What is choanocyte ?
- (f) What is gastrozoid ?
- (g) Why queen and workers in honey bee are called sisters ?
- (h) What is viviparity ?
- (i) Write down dental formula of man.
- (j) What are carnivores ?

GROUP - C

3. Write notes on any eight of the following within 75 words each.

[2 × 8

- (a) Sporozoite

- (b) Medusa
- (c) Drone
- (d) Significance of torsion in gastropods
- (e) Use of Pearl
- (f) Hibernation
- (g) Anura
- (h) General characters of reptiles
- (i) Reptilian characters of Archaeopteryx
- (j) Uses of bee wax.

GROUP - D

*Answer **any four** questions within 500 words each.*

- 4. Give an account of life history of *P. vivax* in man. [6]
- 5. Discuss different types of morphological adaptations in nematodes. [6]
- 6. Give an account of the larval forms in Echinodermata. [6]
- 7. Describe the social structure in termites. [6]

[4]

8. Describe the different types of fish migration and discuss its advantages. [6]
9. Give an account of terrestrial adaptations in Amphibia on land. [6]
10. Give an account of dentition in mammals. [6]