

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) Transmission of malaria takes place by female Anopheles mosquito, was first discovered by _____.
- (b) What is the first larval stage of Fasciola _____.
- (c) The oviduct of *Taenia solium* is surrounded by _____ gland.
- (d) _____ is a smaller canal or passage-way connecting incurrent canal with radial canal.
- (e) Large spicules which are visible to the naked eye are called as _____.
- (f) _____ stage larva is the infective stage of *Microfilaria bancrofti*.

[2]

- (g) The main function of axopodia is _____.
- (h) The phylum Nematelminthes comprises animals called as _____.

GROUP - B

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

[1½ × 8

- (a) What is coral ?
- (b) Define parasite.
- (c) Rhagon
- (d) What are proglottids ?
- (e) What are flame cells ?
- (f) Importance of polymorphism
- (g) What are round worms ?
- (h) Define host.
- (i) What is scolex of *Taenia solium* ?
- (j) Define metazoa.

[3]

GROUP - C

3. Answer any eight of the following within 75 words each. [2 × 8]
- (a) What are spongin fibres ?
 - (b) Define Osmoregulation.
 - (c) Write down the functions of spicule.
 - (d) Modern flagellate theory
 - (e) What is cydippid larva ?
 - (f) Modification of polyps
 - (g) Define endomixis
 - (h) Describe the structure of head of Taenia.
 - (i) Degeneration of organs in parasitism
 - (j) Differentiate between parasite and pathogen.

GROUP - D

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

- 4. Discuss the life cycle of Plasmodium. [6]
- 5. Describe polymorphism in Cnidaria. [6]

[4]

6. Give an account of the canal system in sponges. [6]
7. Mention the general characters of Ctenophora and add a note on its relationship with Coelenterata. [6]
8. Explain different types of corals and mention their importance. [6]
9. Explain the larvae of Fasciola. [6]
10. What are Protista ? Explain the reproduction process in Protista. [6]