

2022

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. Answer all questions and fill in the blanks as required. [1 × 8]
- (a) _____ is the infective stage of Plasmodium.
 - (b) The function of contractile vacuole in Protozoa is _____.
 - (c) _____ layer is the inner most layer of Pearl.
 - (d) Name of the scientist, who discovered malaria parasite ?
 - (e) *Homo sapiens* belongs to order of _____ class-mammalia.
 - (f) how many air-sacs are associated with lungs of birds ?
 - (g) The stinging cells of cnidarians are called _____.
 - (h) Name the locomotory structure of star fish (*Asterias*).

P.T.O.

[2]

GROUP - B

2. Answer any eight of the following within two or three sentences each. [1½ × 8

- (a) What are coelomates ?
- (b) What are protostomes ?
- (c) What is mantle ?
- (d) What is torsion ?
- (e) What are Osphradia ?
- (f) What is Carapace ?
- (g) What are Amniotes ?
- (h) What is Strynx ?
- (i) What are Pneumatic bones ?
- (j) What is dental formula ?

GROUP - C

3. Answer any eight of the following within 75 words each. [2 × 8

- (a) Explain Sycon type canal system.
- (b) Give Reptilian characters of Archaeopteryx.

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- (c) Explain Schizogony.
- (d) Explain Sporogony.
- (e) Give a note on Bipinnaria larva.
- (f) What are Primates ?
- (g) Give a brief account of biology of honey bee.
- (h) Write characteristic features of Annelida. Give examples.
- (i) Write a brief note on metamerism in Annelida.
- (j) Write down the general characters of class Amphibia. Give examples.

GROUP - D

Answer all questions within 500 words each.

- 4. Describe Life cycle of *Taenia solium* giving suitable diagram. [6]
- 5. Write a note on parasitic adaptations in Helminths. [6]
- 6. Discuss about parental care in the members of class Amphibia with examples. [6]
- 7. Write a note on migration in fishes. [6]

P.T.O.

[4]

8. Give a note on origin of Reptiles. [6]
9. Discuss various flight adaptations in Birds. [6]
10. What is Polymorphism ? Explain Polymorphism in cnidarians giving suitable examples. [6]