2024

ZOOLOGY — HONOURS

Paper: CC-3 and delegations being anotodetomoloit (a)

[Non-Chordate - II (Coelomate Phyla)]

Full Marks: 50 manifold has not used and strew (a) .2

The figures in the margin indicate full marks.

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

Question no. 1 is compulsory and answer any four questions from the rest.

1.	Ans	swer any five questions:		2×5
	(a)	What is schizocoelom?		
	(b)	Differentiate between radial canal and ring canal.		
	(c)	Write the scientific name of silver fish and cuttle fish.		
	(d)	Define pseudometamerism. Give example.		
	(e)	Mention two significance of tornaria larva.		
	(f)	What is chloragogen cell?		
	(g)	Why Balanoglossus is also called as Tongue worm?		
	(h) (i)	What is Aristotle's lantern? What is trophallaxis?		
2.	(a)	Justify the statement with proper reasons: (i) Spider is an Arachnida (ii) Pila is a Gastropod.		
	(b)	Give the systematic position of (i) Balanus sp. (ii) Aphrodite sp. (2½×2)+	-(2½	2×2)
3.	(a)	Explain the antagonistic role of juvenile hormone and moulting hormone in insect.		

(b) Mention the caste system of a termite colony according to the division of labour.

5+5

- (i) Tiedemann's body
- (ii) Prothoracic gland
- (iii) Ctenidium.

(b) Describe the process of aerial respiration in Pila sp.

 $(2 \times 3) + 4$

21/2×4

- 6. (a) What are microphagous and macrophagous animals?
 - (b) What do you mean by haemal coelom? Write its significance.
 - (c) What is monopectinate gill?

3+(2+2)+3

- 7. (a) Describe the structure and function of following haemocytes in cockroach:
 - (i) Prohaemocyte
 - (ii) Plasmocyte
 - (iii) Granulocyte.
 - (b) Write down the functions of Radula and Osphradium.

- **8.** (a) What are blastopore and blastodermic vesicle?
 - (b) State the characteristic features (any three) of class Bivalvia with examples.
 - (c) What do you mean by Organ of Bojanus? State briefly its function.