1.

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

Ans	wer <u>all</u> questions and fill in the blanks as required. $[1 \times 8]$
(a)	numbers of Tiedmann's bodies are persent in the ring canal of Asterias.
(b)	Name the respiratory organ in Scorpion.
(c)	Spider belongs to class of phylum Arthropoda.
(d)	The type of coelom found in Arthropods is called
(e)	Name the Annelid commonly called sea-mouse.
(f)	The innermost layer of pearl is called layer.
(g)	Which Mollusc is commonly called 'Devil fish'?
(h)	is the common larval form of Annelids.

GROUP - B

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

- (a) What is torsion?
- (b) What is Mantle?
- (c) What are Ommatidia?
- (d) What are nephridia?
- (e) What are osphradia?
- (f) Name the larval forms of molluscs.
- (g) Name the various castes in Honey bees.
- (h) Define schizocoel and enterocoel.
- (i) What is radula? What is its function?
- (j) What are epipodites?

GROUP - C

- 3. Answer any eight of the following within 75 words each. [2 × 8
 - (a) Give characteristic features of class Polychaeta of Phylum Annelida. Give examples.

- (b) Explain the structure of Pearl.
- (c) Give general characters with examples of class Arachnida of Phylum Arthropoda.
- (d) Give a brief note on evolutionary significance of Trochophore larva.
- (e) What is moulting in Arthropods?
- (f) Write down the characters of class Asteroidea with examples of Phylum Echinodermata.
- (g) Give a brief note on structure of compound eye.
- (h) Write down the affinities of Echinodermata with Chordata.
- (i) Write down the general characters of phylum Mollusca.
- (j) Write a note on Bipinnaria larva.

GROUP - D

Answer all questions within 500 words each.

- 4. Give an account of various larval forms in Echinodermata. [6
- 5. Write a note on Respiration in Arthropoda. [6
- 6. Write down general characteristic features of Onychophora. Add a note on its evolutionary significance. [6]

7.	Explain Respiration in Mollusca giving suitable examples.	[6
8.	Explain mechanism of 'Torsion in Gastropoda'.	[6
9.	Write a note on water-vascular system in Asteroidea.	[6
10.	Write a note on Metamerism in Annelids.	[6