

2022

ZOOLOGY

[Honours]

(B.Sc. Second Semester End Examination-2022)

PAPER-CC3T

Full Marks: 40

Time: 02 Hrs

*The figures in the right hand margin indicate marks
Candidates are required to give their answers in their own words as
far as practicable
Illustrate the answers wherever necessary*

- 1) Answer any five questions from the following: 5x2= 10**
- a. Write down the evolutionary significance of mesoglea.
 - b. What is chitonery?
 - c. Give one example each (must mention the scientific name)
i) Acoelomate ii) Pseudocoelomate
 - d. Write down the function of stone canal.
 - e. What are the basic differences between blastula and gastrula stage.
 - f. Write down the respiratory organ of prawn and cockroach.
 - g. What is phyllobranch?
 - h. What is nuptial flight?

(2)

2. Answer any four questions from the following: $4 \times 5 = 20$

- a. Mention any two hemichordates (scientific name). Write down the important features of hemichordates. Do you think it is under chordates? Why do you think so? $1+2+2$
- b. Write down the hormone regulation of metamorphosis in insects. 5
- c. Briefly describe the aquatic mode of respiration in Pila sp. 5
- d. Write down the general features of onychophora. What is the evolutionary significance of onychophora. $3+2$
- e. Mention the water vascular system in Asteroidea.
- f. i) Draw the schematic diagram of blood flows through the gills of prawn.
- ii) What is ommatidium? $3+2$

3. Answer any one questions of the following: $1 \times 10 = 10$

- a. What is torsion? Mention the changes often torsion in Pila sp. Write its significance. $1+7+2$
- b. i) Write down the general characteristics features of annelida, with the classification up to class.
- ii) Write down the evolutionary significance of metamerism in Annelida. $5+5$
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