

U.G. 1st Semester Examination - 2022

ZOOLOGY
[HONOURS]

Course Code : ZOOL-II-CC-T-02

Full Marks : 40

Time : 2½ Hours

The figures in the right-hand margin indicate marks.

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

Answer all the questions.

1. Answer any **five** questions of the following:

2×5=10

- a) What is true metamerism? Where it is found?
- b) Differentiate between Protostomia and Deuterostomia.
- c) What are 'Worker', 'Soldier' and 'Nasute' in Termite colony?
- d) How many types of echinoderm larvae are found? Give examples.
- e) State the function of 'Stone Canal'.

[Turn over]

b) What do you mean by Torsion? Write down the site of Torsion. Explain how Torsion occurs with suitable diagram. State the effect and significance of Torsion.

1+1+(2+2)+(2+2)

c) Which type of Metamorphosis is seen in Lepidopteran insects? Briefly describe the process of that metamorphosis. Name the Hormones that influences metamorphosis in insects.

2+5+3

d) State the features of a Coelom. Where it is found? Differentiate between Coelom and Pseudocoelom with examples. Explain Schizocoely and Enterocoely Coelom with diagram.

2+1+3+(2+2)

d) What are the zoological importance of Onychophora?

g) Name the ganglions present in the nervous system in Gastropoda.

2. Answer any two questions:

$5 \times 2 = 10$

a) Write down the salient features of Oligochaeta. Cite two examples (Scientific Names).

b) Describe the structure and functions of Pharyngeal Nephridia with diagram.

c) Write down the structure of a Tube feet with suitable diagram.

d) What are Plastron respiration and Integumental respiration? Where they are seen?

3. Answer any two questions:

$10 \times 2 = 20$

a) State the general characteristics of Phylum Hemichordata with examples (Scientific Names). Add a note on relationship of Hemichordata with Non-chordates and Chordates.

$(3+1)+(3+3)$