

UG/1st Sem/H/20(CBCS)

2020

ZOOLOGY (Honours)

Paper- ZOOL-H-DC-2-T

[Non-Chordates - II (Coelomates)]
(CBCS)

Full Marks : 25

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

1. Answer any *eight* questions : $\frac{1}{2} \times 8 = 4$
- (a) Leech belongs to the class _____ . (Fill in the blank)
 - (b) The main body cavity of Arthropods is a _____ (Fill in the blank).
 - (c) The role of typhlosole in the intestine of earthworm is _____ . (Choose the correct option)
 - (i) To increase absorptive surface
 - (ii) To control flow of blood
 - (iii) To kill bacteria
 - (d) In echinoderms anus develops from blastopore. (True or False)
 - (e) Give an example of wing-less insect.
 - (f) Book lung is the respiratory organ of _____ (Fill in the blank).
 - (g) Name the notochord-like structure found in Hemichordata.

- (h) The mouth parts of housefly are sucking and _____ type (Fill in the blank).
- (i) Cuttlefish is the common name of _____ sp. (Fill in the blank)
- (j) Name the larva which is present only in members of gastropods.
- (k) Aristotle's lantern is found in _____ (star fish / sea urchin).
- (l) What is the meaning of the term, "hemichordate"?

2. Answer any *two* questions : 2½×2=5

- (a) Write the significance of metamerism.
- (b) Write the characteristics of phylum Hemichordata.
- (c) Write a short note on detorsion.
- (d) Differentiate pseudocoelom and coelom with examples.

3. Answer any *four* questions : 4×4=16

- (a) Write the general characteristics of phylum annelida with example.
- (b) With a neat diagram briefly describe the different parts of the water vascular system of *Asterias* sp.
- (c) Describe the mode of aquatic respiration in *Pila* sp. with proper diagram.
- (d) Briefly describe the general characteristics and evolutionary significance of Onychophora. 2+2=4
- (e) Briefly describe the mechanism of blood circulation in earthworm.
- (f) Discuss the relationship of hemichordata with non-chordates and chordates.
- (g) Briefly describe the metamorphosis in any Lepidopteran insect.
