

**2024/TDC (CBCS)/EVEN/SEM/
ZOOHCC-201T/014**

TDC (CBCS) Even Semester Exam., 2024

ZOOLOGY

(2nd Semester)

Course No. : ZOOHCC-201T

(Non-chordates II : Coelomates)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

UNIT—I

1. Answer any two of the following questions :

2×2=4

(a) What is pseudocoelom? In which phylum is it found?

1+1=2

(b) Define metamerism. Name the germinal layer that lines coelom.

(c) What is parapodium and what is its function?

(2)

2. Answer any *one* of the following questions : 6

- (a) Write the general features of phylum Annelida. Classify phylum Annelida up to classes with suitable examples. $2+4=6$
- (b) Describe the process of excretion in Leech with suitable diagram. 6

UNIT—II

3. Answer any *two* of the following questions : $2 \times 2 = 4$

- (a) Write four distinctive features of class Insecta.
- (b) What is cephalothorax? Name two Crustacean larvae.
- (c) What is book lung?

4. Answer any *one* of the following questions : 6

- (a) Describe the process of metamorphosis in insects and its hormonal regulation. $4+2=6$
- (b) What is meant by eusocial animal? Give an account of social organization in honeybee. $1+5=6$

(3)

UNIT—III

5. Answer any *two* of the following questions : $2 \times 2 = 4$

- (a) Write the general features of Xiphosura.
- (b) Write a note on taxonomic position of Onychophora.
- (c) What is the function of oral papilla and slime glands in Peripatus.

6. Answer any *one* of the following questions : 6

- (a) Discuss the morphological and anatomical peculiarities of Onychophora. Add a brief note on the present geographical distribution of Onychophora. $5+1=6$
- (b) Describe briefly the structure of Limulus. Add a note on its phylogenetic significance. $4+2=6$

UNIT—IV

7. Answer any *two* of the following questions : $2 \times 2 = 4$

- (a) What is nuchal lobe in Pila?
- (b) Write at least four characteristic features of class Asteroidea.
- (c) What is pearl? Give the scientific name of one marine pearl oyster.

8. Answer any *one* of the following questions : 6

(a) Describe the double mode of respiration in Pila with suitable diagrams. 6

(b) Describe the process of torsion in Gastropoda. Add a note on its significance. 5+1=6

UNIT—V

9. Answer any *two* of the following questions :

2×2=4

(a) Name the major classes of phylum Echinodermata with one example of each class.

(b) What is stone canal? Write its function.

(c) What is Aristotle's lantern?

10. Answer any *one* of the following questions : 6

(a) Describe briefly water vascular system in Asteroidea. Add a note on the affinities of Echinodermata with Chordata. 4+2=6

(b) Give an account of different larval forms of Echinodermata with necessary diagram. 6

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