

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?

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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 : 2×2=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

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( Continued )

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UNIT—III

5. Answer any *two* of the following questions : 2×2=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 : 2×2=4

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

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( Turn Over )

( 4 )

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 Asterozoa. 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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