



**2022/TDC(CBCS)/EVEN/SEM/
ZOOHCC-201T/085**

TDC (CBCS) Even Semester Exam., 2022

ZOOLOGY

(Honours)

(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*

SECTION—A

Answer any *ten* questions : 2×10=20

1. What is meant by pseudocoelomate animals? Give examples.
2. Differentiate between protostomes and deuterostomes. Cite examples.
3. What is parapodium and what is its function?



<http://www.elearninginfo.in>

(2)

4. What is cephalothorax? Name two Crustacean larvae.
5. What is ommatidium?
6. Differentiate between Exopterygota and Endopterygota insects. Give an example of Dipteran insect.
7. What is tracheal respiration?
8. Write the general features of Xiphosura.
9. Write a note on the taxonomic position of Onychophora.
10. What is nuchal lobe in *Pila*?
11. Name two characteristic larval forms of Mollusca.
12. Name the respiratory devices of *Pila* for double mode of respiration. Give example of a freshwater mussel.
13. Give four general characters of phylum Echinodermata.
14. What is Aristotle's lantern?
15. What is the functional significance of water vascular system in echinoderms?

22J/1046A

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(3)

SECTION—B

Answer any five questions :

6×5=30

16. Name the classes of phylum Annelida. Write the features of each class with suitable examples. 6
17. Write short notes on the following : 3+3=6
 - (a) General features of phylum Annelida
 - (b) Structure of testicular nephridium of leech
18. What is metamorphosis? Discuss the process of metamorphosis in insects and its hormonal regulation. 6
19. Write short notes on the following : 3+3=6
 - (a) General features of phylum Arthropoda
 - (b) Mosaic vision in Arthropoda
20. Discuss the morphological and anatomical peculiarities of Onychophora. Add a brief note on present geographical distribution of Onychophora. 5+1=6
21. Write short notes on the following : 3+3=6
 - (a) Affinities of Onychophora
 - (b) External and internal features of *Limulus*

22J/1046A

(Turn Over)



22. Write four distinctive features of phylum Mollusca. Classify the phylum up to classes with two features and examples of each class. $2+4=6$
23. Write short notes on the following : $3+3=6$
- (a) Torsion in Gastropoda
 - (b) Pearl formation in bivalves
24. Give an account of different larval forms of Echinodermata with necessary diagrams. 6
25. Write short notes on the following : $3+3=6$
- (a) Water vascular system in Asteroidea
 - (b) Affinities of echinoderms with chordates
