

**2023/FYUG/ODD/SEM/
ZOODSC-101T/032**

**FYUG Odd Semester Exam., 2023
(Held in 2024)**

ZOOLOGY

(1st Semester)

Course No.: ZOODSC-101T

(Diversity of Non-Chordates)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

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

SECTION—A

Answer ten questions, selecting any two from each

Unit : 2×10=20

UNIT—I

- 1. Define Protozoa. Write four distinctive characters of phylum Protozoa.**
- 2. Classify Porifera up to classes with examples.**

3. Write a brief note on bilateral symmetry with illustration.

UNIT—II

4. Define Cnidaria. Write four distinctive characters of Cnidaria.
5. Distinguish between Polyp and Medusa.
6. Write a brief note on cnidoblast with illustration.

UNIT—III

7. Define Platyhelminthes. Write four distinctive features of phylum Platyhelminthes.
8. Write a brief note on pseudocoelom with illustration.
9. Classify phylum Annelida up to classes with examples.

UNIT—IV

10. Define Arthropoda. Write four distinctive features of phylum Arthropoda.
11. Write a brief note on compound eye in prawn with illustration.

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(Continued)

12. Write briefly the structural features of *Limulus*.

UNIT—V

13. Define Mollusca. Write four distinctive features of phylum Mollusca.
14. Classify phylum Echinodermata up to classes with examples.
15. Write a brief note on aquatic respiration in Mollusca.

SECTION—B

Answer five questions, selecting one from each Unit : $10 \times 5 = 50$

UNIT—I

16. Define locomotion. Discuss the different forms of locomotion in Protozoa with suitable illustrations. Add a note on cyclosis in *Paramecium*. $1 + (5 + 2) + 2 = 10$

17. Define canal system. Discuss the syconoid canal system with suitable illustration. Add a note on the functions of canal system in Porifera. $1 + (5 + 2) + 2 = 10$

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(Turn Over)

UNIT—II

18. Define alternation of generation and metagenesis. Discuss the life cycle of *Obelia* with suitable illustration. $2+6+2=10$

19. Define corals. Discuss the different types of coral reefs with illustration. Add a note on four distinctive features of phylum Ctenophora. $1+(5+2)+2=10$

UNIT—III

20. Discuss the life cycle of *Taenia solium* with suitable illustration. Add a note on the pathogenicity of *Taenia solium*. $(6+2)+2=10$

21. Discuss the digestive system of Leech with suitable labelled diagram. Add a note on the types of metamerism. $(6+2)+2=10$

UNIT—IV

22. Define digestion. Discuss the digestive system of Prawn with suitable labelled diagram. Add a note on six distinctive features of class Insecta. $1+(5+2)+2=10$

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23. Discuss the characteristic features of Onychophora and mention its phylogenetic significance. Discuss briefly the respiratory system in Prawn with illustration. $(3+2)+(3+2)=10$

UNIT—V

24. Define torsion and detorsion in Gastropoda. Discuss the process of torsion in Gastropoda with suitable illustrations. Add a note on the significances of torsion. $2+(4+2)+2=10$

25. Define water vascular system. Discuss the water vascular system in Asterias with suitable labelled diagram. Add a note on the functions of water vascular system. $1+(5+2)+2=10$
