

**2023/FYUG/ODD/SEM/
ZOODSM-101T/034**

FYUG Odd Semester Exam., 2023

(Held in 2024)

ZOOLOGY

(1st Semester)

Course No. : ZOODSM-101T

(Animal Diversity)

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. Mention the names of different locomotory organelles found in Protozoa.
2. Write any two distinctive features of Porifera.
To which class *Sycon* belongs? 1+1=2
3. What is Nematocyst? Which organism is also called Portuguese man of war? 1+1=2

(2)

UNIT—II

4. Mention the different classes of Platyhelminthes with one example from each class.
5. Write four distinctive characters of Nematelminthes with examples.
6. In which organism clitellum is found? Mention its function. 1+1=2

UNIT—III

7. Write the distinctive features of class Insecta with examples.
8. What do you mean by Torsion?
9. Write four salient features of Echinodermata.

UNIT—IV

10. Why Urochordates are known as Tunicates? Give one example. 1+1=2
11. Write two distinctive features of cyclostomes. Give one example of cyclostomes. 1+1=2
12. Differentiate between Anura and Urodela with examples.

(3)

UNIT—V

13. Mention four distinctive features of Aves with two examples.
14. Write salient features of Prototheria. Give one example of egg-laying mammal. 1+1=2
15. Differentiate between Marsupials and Placental mammals with examples.

SECTION—B

Answer *five* questions, selecting *one* from each Unit : 10×5=50

UNIT—I

16. Describe the canal system found in *Sycon* with suitable diagram. Mention the functions of canal system. 6+2+2=10
17. What is coral reef? Mention the suitable conditions for formation of coral reef. Discuss different types of coral reef with suitable diagram. 1+2+7=10

UNIT—II

18. Describe the life cycle of *Ascaris lumbricoides* with suitable diagram. Add a note on Rhabditiform larva. 8+2=10

19. Describe the digestive system of leech with a labelled diagram. Add a note on the feeding mechanism of leech. $7+3=10$

UNIT—III

20. Discuss different types of visions found in Arthropoda with suitable illustrations. How apposition image differs from superimposition image? $8+2=10$
21. Discuss water vascular system of starfish with diagram. Write important functions of water vascular system. $6+2+2=10$

UNIT—IV

22. What do you mean by osmoregulation? Illustrate the process of osmoregulation in marine fishes. $2+8=10$
23. What do you mean by parental care? Discuss the process of parental care in Amphibia with examples. $2+8=10$

UNIT—V

24. Describe the biting mechanism in snakes. Differentiate between poisonous and non-poisonous snakes with examples. $6+4=10$
25. Discuss various anatomical and physiological adaptations in birds for flight. 10
