

**2025/FYUG/ODD/SEM/
ZOODSM-101T/332**

FYUG Odd Semester Exam., 2025

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*

UNIT—I

Answer any *two* questions from the following : 2×2=4

- (a) Why is Euglena considered as an exceptional Protozoa? Cite examples of two parasitic Protozoa.
- (b) What is canal system? What are its types?
- (c) What is meant by polymorphism? Cite examples of two polymorphic Cnidaria.

(2)

2.

Answer any one question from the following :

(a) Discuss the general classification of Protozoa up to the locomotion of Protozoa. Add a note with examples.

(b) Discuss the general features of Cnidaria up to the classification of Cnidaria up to the coral reefs. Add a note on coral reefs.

UNIT—II

3.

Answer any two questions from the following :

(a) Write four distinctive features of Platyhelminthes.

(b) What is meant by digenetic parasite? which class does *Taenia solium* belong to?

(c) What is meant by polychaete worm? Name the locomotory organs of Nereis.

4.

Answer any one question from the following :

(a) Write four distinctive features of Nematelminthes. Discuss the life cycle of *Ascaris lumbricoides* with necessary diagrams.

(b) What is nephridia and how many pairs of nephridia does leech possess? Describe the digestive system of leech with suitable diagrams.

(3)

UNIT—III

Answer any two questions from the following :

(a) Give four distinctive features of phylum Arthropoda.

(b) What is meant by torsion in Gastropoda? Explain briefly.

(c) Write any two distinctive features of class Crustacea. Name any two larval stages of phylum Arthropoda.

Answer any one question from the following : 10

6. What is ommatidium? Discuss the phenomenon of vision in Arthropoda with necessary diagrams. 2+8=10

(b) Give four distinctive features of phylum Echinodermata and classify the phylum up to classes with examples. Describe the water vascular system of starfish with a proper diagram. 2+3+5=10

UNIT—IV

7. Answer any two questions from the following : 2×2=4

(a) Why are urochordates also called Tunicata? Cite one example of a Cephalochordata.

(b) What are elasmobranch fishes? Cite examples.

(c) Give two distinctive features of Apoda. Cite examples of Apoda.

8. Answer any *one* question from the following:
- (a) Differentiate between Chondrichthyes and Osteichthyes fishes with suitable examples. Discuss the mechanism of osmoregulation in marine fishes. 3+7.
 - (b) What is neoteny? Give four distinctive features of urodele amphibians. Give an account on parental care in Amphibia. 2+2+6

UNIT—V

9. Answer any *two* questions from the following : 2x
- (a) Give two distinguishing features of poisonous snake. Cite examples.
 - (b) Differentiate between Monotremata and Marsupialia with examples.
 - (c) What is meant by pneumatic bone? Explain briefly.
10. Answer any *one* question from the following :
- (a) What are Eutherian (Placental) mammals? Give distinctive features of orders Chiroptera, Carnivora and primates of class Mammalia with suitable examples. 1+3+3+3=
 - (b) Write notes on : 5+5=
 - (i) Biting mechanism in snakes
 - (ii) Flight adaptations in birds

★ ★ ★