

**2025 / FYUG / ODD / SEM /
ZOODSC-101T / 330**

FYUG Odd Semester Exam., 2025

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*

UNIT—I

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

- (a) Write four distinctive features of phylum Porifera.
- (b) What is gemmule?
- (c) Write a short note on cyclosis in Paramecium.

2.

(3)

(a) What is canal system? Describe syconoid type canal suitable illustrations. Add a note on the functions of canal system.

(b) Explain the concept of body symmetry and segmentation in Metazoa. Add a note on the evolutionary significance of segmentation in Metazoa.

UNIT—II

3. Answer any two questions from the following :

(a) Why are members of phylum Cnidaria called cnidarians?

(b) Differentiate between fringing reef and barrier reef.

(c) Mention the different classes of Cnidaria and give one example from each.

4. Answer any one question from the following:

(a) Describe the life cycle of *Obelia* with suitable illustrations. Add a note on the affinities of Ctenophora.

(b) What is polymorphism? Explain polymorphism in Siphonophora with suitable examples.

5.

Answer any two questions from the following : $2 \times 2 = 4$

(a) What do you mean by pseudocoelom?

(b) Mention the classes of phylum Platyhelminthes with one example each.

(c) Write four distinctive features of phylum Annelida.

6. Answer any one question from the following : 10

(a) Describe with suitable illustrations, the life cycle of *Taenia solium*. Add a note on the pathogenicity of *Ascaris lumbricoides* in humans. $7+3=10$

(b) Describe the digestive system of leech with suitable labelled diagram. Add a note on evolution of coelom. $7+3=10$

UNIT—IV

7. Answer any two questions from the following : $2 \times 2 = 4$

(a) Mention the significance of the chitinous exoskeleton in Arthropoda.

(b) Why is Peripatus considered a connecting link between Arthropoda and Annelida?

(c) Write the distinctive features of class Insecta with example.

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8. Answer any one question from the following:
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UNIT—V

9. Answer any two questions from the following :

- (a) Mention the characteristic features of Asteroidea. 2x
- (b) Mention four distinctive features of Mollusca. 1.
- (c) Write a short note on Ctenidia. Answer any two questions from the following : 2x2=4

UNIT—I

10. Answer any one question from the following :

- (a) Describe the process of torsion and detorsion in Gastropoda with suitable diagram.
- (b) Define taxonomy and systematics.
- (c) Who discovered the DNA barcoding? What is its biological significance?

2. Answer any one question from the following : 10

- (a) What do you mean by binomial nomenclature? Discuss in detail the rules of binomial nomenclature. Add a note on ICZN. 1+4+5=10

2+8=1