



**2022/TDC/ODD/SEM/  
ZOOHCC-101T/025**

**TDC (CBCS) Odd Semester Exam., 2022**

**ZOOLOGY**

**( Honours )**

**( 1st Semester )**

Course No. : ZOOHCC-101T

**( Non-chordates—I : Protozoa and Metazoa )**

*Full Marks : 50*

*Pass Marks : 20*

*Time : 3 hours*

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

**UNIT—I**

**1. Answer any *two* of the following questions :**

**2×2=4**

- (a) Mention the classes under phylum Protozoa with one example each.
- (b) Write a short note on nutrition in Euglena.
- (c) Mention the various modes of reproduction found in Protozoa.



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2. Answer any one of the following questions : 6

- (a) What are the locomotory organelles found in Protozoa? Explain the pseudopodial mode of locomotion with diagram. 2+4=6
- (b) Describe briefly the life cycle of *Plasmodium vivax* with illustration. 2+4=6

UNIT—II

3. Answer any two of the following questions : 2×2=4

- (a) Mention the salient features of phylum Porifera.
- (b) Write a short note on sponge spicules.
- (c) Write about the course of circulation of water in syconoid canal system.

4. Answer any one of the following questions : 6

- (a) Describe the life history of *Sycon* with diagram.
- (b) Describe the histology of *Sycon* with proper diagram.

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UNIT—III

5. Answer any two of the following questions : 2×2=4

- (a) What are the various types of coral forming coelenterates you have studied?
- (b) Write a short note on Darwin-Dana subsidence theory of coral reef formation.
- (c) Write the unique features of Ctenophora.

6. Answer any one of the following questions : 6

- (a) Describe the life cycle of *Obelia* with proper illustration. What is metagenesis? 5+1=6
- (b) Discuss the general characteristics and affinities of Ctenophora. 3+3=6

UNIT—IV

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

- (a) Mention the general characters of phylum Platyhelminthes.
- (b) Write a short note on pathogenesis of *Taenia solium*.
- (c) Enlist the salient parasitic adaptations found in Platyhelminthes.

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( Turn Over )



8. Answer any one of the following questions : 6

- (a) Describe the life cycle and pathogenicity of *Fasciola hepatica*. 4+2=6
- (b) Classify phylum Platyhelminthes up to class with characters and examples.

UNIT—V

9. Answer any two of the following questions : 2×2=4

- (a) Mention the general characters of Rotifers.
- (b) Write a short note on 'Elephantiasis'.
- (c) What do you understand by monogenetic and digenetic parasites? Give example of each.

10. Answer any one of the following questions : 6

- (a) Describe the life cycle of *Ascaris lumbricoides* with suitable illustration.
- (b) Mention four general characters of phylum Nematemintes. Classify the phylum Nematemintes up to class with characters and examples. 2+4=6

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