



**2022/TDC/ODD/SEM/  
ZOOHCC-301T/028**

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

**ZOOLOGY**

**( Honours )**

**( 3rd Semester )**

**Course No. : ZOOHCC-301T**

**( Diversity of Chordates )**

*Full Marks : 50*

*Pass Marks : 20*

*Time : 3 hours*

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

**UNIT—I**

**1. Answer the following questions (any two) :**

**2×2=4**

(a) Define retrogressive metamorphosis.

(b) Describe the characteristics of protochordates.

(c) State the differences between vertebrate and protochordate.



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2. (a) Describe the general characteristics of the phylum Chordata. Write a note mentioning its subphylum, their distinguishing characteristics along with examples.  $2+4=6$

Or

- (b) Why is the metamorphosis in Protochordata termed as retrogressive? Describe the retrogressive metamorphosis in Urochordata.  $2+4=6$

UNIT—II

3. Answer the following questions (any two) :  $2 \times 2 = 4$
- (a) State the differences between Agnatha and Gnathostomata along with examples.
- (b) Define potadromous migration along with one example.
- (c) Mention the morphological characteristics of the family Cyprinidae.
4. (a) What do you understand by parental care? Discuss about parental care in fishes with appropriate examples.  $2+4=6$

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- (b) Write short notes on the following :  $3 \times 2 = 6$
- (i) Types of fish migration
- (ii) Osmoregulation in fish

UNIT—III

5. Answer the following questions (any two) :  $2 \times 2 = 4$
- (a) Mention the characteristics and class of Caecilians.
- (b) State the function of parietal eye of *Sphenodon*.
- (c) Mention the types of fangs.
6. (a) Why is *Sphenodon* termed as 'living fossil'? Discuss the affinities of *Sphenodon*.  $2+4=6$

Or

- (b) State the differences between poisonous and non-poisonous snakes. Write a note on 'biting mechanism in snakes'.  $3+3=6$



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UNIT—IV

7. Answer the following questions (any two) :

2×2=4

- (a) Mention the phylogenetic importance of *Archaeopteryx*.
- (b) Mention the mammalian characteristics of Chiroptera.
- (c) Mention two mammalian and two avian characteristics of Ornithorhynchus.

8. (a) What is patagium? What is its significance? Write an essay on 'echolocation of bats'.

1+1+4=6

Or

(b) What do you understand by hyperphagia? Mention its significance. Write an essay on migration in birds.

1+1+4=6

UNIT—V

9. Answer the following questions (any two) :

2×2=4

- (a) What is Gondwana land? Mention the names of four continents.

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( Continued )

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(b) What do you understand by marsupials? State their geographic distributions.

(c) Mention the names of some countries of Ethiopian region along with their faunal composition.

10. (a) Discuss in detail about the geographical range, physical features and faunal composition of Australian region with special reference to mammals only.

2+1+3=6

Or

(b) What is barrier? Discuss different types of barriers you have studied.

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