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**3 SEM TDC ZOOH (CBCS) C 5**

**2021**

( Held in January/February, 2022 )

**ZOOLOGY**

( Core )

Paper : C-5

**( Diversity of Chordata )**

*Full Marks : 53*

*Pass Marks : 21*

*Time : 3 hours*

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

1. Fill in the blanks : 1×5=5
- (a) Balanoglossus belongs to the subphylum \_\_\_\_.
- (b) Migration of fish from freshwater to sea water is called \_\_\_\_.
- (c) \_\_\_\_ is the connecting link between reptiles and birds.
- (d) \_\_\_\_ is an example of Cyclostomata.
- (e) \_\_\_\_ concept is associated with Echinoderm theory.

( 2 )

2. Write short notes on any *three* of the following : 4×3=12

- (a) Flight adaptations in birds
- (b) Migration in fishes
- (c) Affinities of Sphenodon
- (d) Parental care in amphibians

3. Describe the general characteristics of Cephalochordata. 6

Or

Give an outline classification of chordates. 6

4. What is parental care? Elaborate the different patterns of parental care in fishes. 2+8=10

Or

Describe the general characteristics and classification up to orders of the phylum Amphibia. 5+5=10

5. Describe about the biting mechanism of poisonous snakes. 10



( 3 )

Or

Write ten general characteristics of the phylum Aves. Mention the characters of the order Casuariiformes and Dinornithiformes.

$5+2\frac{1}{2}+2\frac{1}{2}=10$

6. What is adaptive radiation? Elaborate the mechanism with reference to locomotory appendages in mammals.  $2+8=10$

Or

Define 'zoogeographical realms'. Explain about the distribution of vertebrates in different realms.  $2+8=10$

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