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( Held in April–May, 2021 )

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) Having dorsal tubular nerve cord is a characteristic feature of \_\_\_\_.
- (b) In birds, sound is produced by \_\_\_\_.
- (c) Platypus belongs to the subclass \_\_\_\_.
- (d) Petromyzon is an example of \_\_\_\_.
- (e) Herdmania belongs to the subphylum \_\_\_\_.

2. Write short notes on any *three* of the following : 4×3=12
- (a) Poison apparatus in snakes
- (b) Catadromous migration
- (c) Retrogressive metamorphosis in urochordata
- (d) Affinities of Sphenodon

3. What is parental care? Elaborate the different patterns of parental care in Amphibians. 1+5=6

*Or*

Describe the origin of Tetrapoda. 6

4. What are the advanced features of vertebrates over protochordates? Discuss the aerodynamics of flight in Aves. 4+6=10

*Or*

Describe the various flight adaptations found in birds and echinoderm theory of origin of chordates. 7+3=10

5. Write about the affinities of Prototheria. 10

*Or*

Classify mammals up to orders with example of each.

( 3 )

6. Define 'Zoogeographical Realms'. Describe the plate tectonic and continental drift theory. 1+5+4=10

*Or*

Write about the distribution of vertebrates in different realms. 10

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