



**2020/TDC(CBCS)/ODD/SEM/
ZOOHCC-301T/028**

**TDC (CBCS) Odd Semester Exam., 2020
held in March, 2021**

ZOOLOGY

(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*

SECTION—A

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

2×10=20

- (a) Write four distinctive features of Chordata.
- (b) "All vertebrates are chordates but all chordates are not vertebrates." Explain the statement.



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- (c) Why are urochordates also known as **tunicata**?
- (d) What are the divisions of body of Hemichordata? Cite one example of a hemichordate.
- (e) Write four features of Cyclostomata. Cite examples.
- (f) What are elasmobranchs? Cite examples.
- (g) What is meant by catadromous and anadromous fishes?
- (h) What are Dipnoi? Cite examples.
- (i) Name the orders of class Amphibia with examples.
- (j) Why is Sphenodon called living fossil?
- (k) Give four distinguishing features of poisonous snake.
- (l) Define parental care. What is ovoviviparity?
- (m) Why is Archaeopteryx considered as connecting link between Reptilia and Aves?
- (n) What is Ratilae? Cite examples.

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(Continued)

- (o) What is Prototheria? Cite examples.
- (p) What is meant by echolocation?
- (q) Define zoogeography. Who divided the earth into six zoogeographical realm?
- (r) What is meant by continental drift? Who put forward the continental drift theory?
- (s) What is meant by bathymetric distribution of animals? Elucidate.
- (t) What are bipolar distribution and bipolarity?

SECTION—B

- Answer any five questions
2. What are protochordates? Discuss general and specialised features of Cephalochordata in reference to Amphioxus. $2+4=6$
3. What is meant by retrogressive metamorphosis? Discuss the phenomenon of retrogressive metamorphosis of Ascidian Tadpole larva. $1+5=6$
4. What are the possible causes of migration of fishes? Discuss the factors influencing and controlling migration in fishes. $2+4=6$

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(Turn Over)



((4))

5. Define osmoregulation. Discuss the mechanisms of osmoregulation among the freshwater fishes. 1+5=6
6. Discuss general characteristics and affinities of Sphenodon. 6
7. Write short notes on the following : 3+3=6
(a) Parental care in Amphibia
(b) Biting mechanism of poisonous snakes
8. Mention the endoskeletal modifications of birds to suit themselves for volant adaptation. Add a note on perching mechanism in birds. 3+3=6
9. Discuss general features of the class Mammalia and classify mammals up to infraclasses. Add a brief note on adaptive radiation in mammals with reference to locomotory organs. 3+1+2=6
10. Discuss the geographic range, physical features and faunal composition of Oriental realm. 6
11. Write short notes on the following : 6
(a) Discontinuous distribution of animals
(b) Means of dispersal of animals

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