

Total No. of Printed Pages—3

3 SEM TDC ZOOH (CBCS) C 5

2 0 2 5

(Nov/Dec)

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) The nerve cord of vertebrates is derived from _____ layer of the three germ layers.

(b) The excretory system of cephalo-chordates is _____.

(c) _____ zoogeographical realm includes the Indian subcontinent.

(2)

- (d) Four-chambered heart in class Reptilia is found in ____.
- (e) ____ organ acts as special, super-charged smell sensors in snakes.
2. Write short notes on any *three* of the following : $4 \times 3 = 12$
- (a) General characteristics of Chordata
- (b) Echolocation in bats
- (c) Plate tectonic theory
- (d) Migration in fishes
3. Discuss the Echinoderm theory of origin of chordates. 6

Or

Discuss the phenomenon of osmoregulation in freshwater and marine fishes.

4. Define parental care. Explain various modes of parental care in amphibians. $2 + 8 = 10$

Or

What is the larval form of Hemichordata? Explain the structure and developmental stages of this larval form during metamorphosis. $1 + 2 + 7 = 10$

(3)

5. Define retrogressive metamorphosis. Give an account of the changes that occur during retrogressive metamorphosis of Ascidian tadpole larva. $2 + 8 = 10$

Or

What are the components of the poison apparatus of snake? Describe the biting mechanism of snakes. $4 + 6 = 10$

6. Write the general characteristics and classification of Aves up to order. $3 + 7 = 10$

Or

Classify mammals up to order. Discuss the affinities of Prototheria. $4 + 6 = 10$
