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B.Sc./3rd Sem (H)/ZOO/23(CBCS)

2023

3rd Semester Examination
ZOOLOGY (Honours)

Paper : C 5-T

[Chordates]

[CBCS]

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *five* questions : $2 \times 5 = 10$

1. What is the function of endostyle in *Branchiostoma*?
2. Differentiate Chondrichthyes and Osteichthyes with examples.
3. What do you mean by Zoogeographical realms?
4. Differentiate Metatheria and Eutheria.
5. Differentiate between horns of cattle and horn of rhinoceros.

P.T.O.

6. Why do Cyclostomes belong to Agnatha?
7. Why can't running birds fly?
8. How can you identify whether a snake bite victim has been bitten by a non-poisonous or poisonous snake?

Group - B

Answer any *four* questions : $5 \times 4 = 20$

9. Mention the advanced features of vertebrates over Protochordata.
10. Write a note on adaptive radiation in mammals based on locomotory appendages.
11. Describe the accessory respiratory structures of *Anabas* sp. and *Clarias* sp.
12. Place the following animals in their respective orders with proper reasons —
 - (i) *Tylototriton* sp.
 - (ii) *Sphenodon* sp.
 - (iii) *Hyla* sp.
 - (iv) *Chelone* sp.
 - (v) *Macropus* sp.
13. Describe how birds navigate during migration.
14. Describe in brief about various modes of parental care in amphibians.

(3)

Group - C

Answer any *one* question : $10 \times 1 = 10$

15. Describe the poison apparatus and biting mechanism of snake. 4+6
16. What is Retrogressive metamorphosis in *Ascidia*? Discuss in brief the feeding mechanism in *Branchiostoma*? How is Amphibian metamorphosis different from that of Ascidian metamorphosis? 2+6+2
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