

**B.Sc. 3rd Semester (Honours) Examination, 2022 (CBCS)****Subject : Zoology****Course : CC-V****(Chordates)****Time: 2 Hours****Full Marks: 40***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****1. Answer any five questions:**  $2 \times 5 = 10$ 

- (a) Differentiate between neoteny and paedogenesis.
- (b) Give the scientific name of an aquatic mammal with systematic position.
- (c) What do you mean by ‘aspect ratio’?
- (d) Differentiate between ‘Opisthoglyphous’ and ‘Proteroglyphous’ fangs of snake.
- (e) Comment on ‘Organ of Jacobson’.
- (f) What is Zugunruhe?
- (g) Why echolocation is known as ‘bisonar’?
- (h) What is the significance of zoogeographical realms?

**Group-B****2. Answer any two questions:**  $5 \times 2 = 10$ 

- (a) Why urochordates are called tunicates? In which class of chordates ‘alteration of generation’ is found? Specify four crucial chordate features of *Branchiostoma* sp.  $1\frac{1}{2} + 1\frac{1}{2} + 2$
- (b) Mention the features of Dipleurula larva. Briefly describe the affinities of prototheria with birds and mammals.  $2 + 3 = 5$
- (c) Whale and Dolphin are included in same class but in different orders. —Explain.  $2\frac{1}{2} \times 2$
- (d) Delineate the biting mechanism of snake with suitable diagram. 5

**Group-C**

**3.** Answer *any two* questions:  $10 \times 2 = 20$

- (a) What are amniotes? Give example. On which basis reptiles are classified? Classify class Reptilia upto living orders with examples. 2+1+7
- (b) Why parental care is important? How many types of parental care are found among fishes? Briefly discuss with suitable examples. 2+8
- (c) Distinguish between echolocation of bats and dolphins. How does an airfoil move through the air and generate lift during flight? 5+5
- (d) Mention the geographical boundary and faunal diversity of Ethiopian Realm. Describe the structure of a typical feather with diagram. 5+5
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