



'समानो मन्त्रः समितिः समानी'

**UNIVERSITY OF NORTH BENGAL**

B.Sc. Honours 3rd Semester Examination, 2022

**CC5-ZOOLOGY**

**CHORDATES**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

1. Answer any **five** questions from the following: 1×5 = 5
  - (a) Who proposed continental drift theory?
  - (b) Name one bird and one mammal found in Australian realm.
  - (c) What do you mean by parental care?
  - (d) What is neoteny?
  - (e) Name one egg laying mammal.
  - (f) What is 'rete mirabile' in swim bladder?
  - (g) What do you mean by anadromous migration?
  - (h) What is Muller's organ?
  
2. Answer any **three** questions from the following: 5×3 = 15
  - (a) Discuss dipleurula concept for the origin of chordata.
  - (b) Describe the mechanism of ciliary mode of feeding in *Branchiostoma*.
  - (c) Mention different types of air sacs and their functions in flying birds.
  - (d) Write a note on biting mechanism in poison snake.
  - (e) Write a note on swim bladder in fish.
  
3. Answer any **two** questions: 10×2 = 20
  - (a) Classify class Amphibia up to living orders with examples.
  - (b) Enumerate anatomical peculiarities of Cyclostomata. Describe the metamorphosis of ammocoete larva and discuss the evolutionary significance of it. 4+(4+2)
  - (c) Mention different types of bird migrations. Discuss the causes of bird migration. 5+5
  - (d) Elucidate the echolocation process in microchiropterans.

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