B.Sc. 3rd Semester (Honours) Examination, 2023 (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 parapsidan and synapsidan skull.
- (b) What do you mean by potamodromous migration?
- (c) Write two salient features of Urochordata.
- (d) What do you mean by solenoglyphous fang?
- (e) Write two significant differences between Archaeornithes and Neornithes.
- (f) What do you mean by adaptive radiation?
- (g) Give two differences between Elasmobranchii and Holocephali.
- (h) Distinguish between Stomochord and Notochord.

Group-B

2. Answer any two questions:

 $5 \times 2 = 10$

(a) Describe briefly the feeding mechanism of *Branchiostoma* Sp.

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(b) What do you mean by parental investment? Discuss examples of parental care shown by Anurans.

h+ 2+2

- (c) What is lift and thrust? State the important morphological adaptations in birds for flight. 2+3
- (d) State the retrogressive changes observed in Ascidia Sp.

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Please Turn Over

2	Answer				
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 $10 \times 2 = 20$

- (a) Mention the main geographical limits and faunal diversity of Oriental realm. Describe briefly
 the echinoderm theory for origin of chordates.
- (b) Write down four salient features of class 'Amphibia'. Classify 'Amphibia' upto living orders with characters and examples (Scientific name) as per classification scheme of Duellman and Trueb (1986).
- (c) Mention the factors that stimulate migratory habit in Birds. State the celestial cues used by birds during migration. How the magnetic field of the Earth helps the birds to navigate? 5+3+2
- (d) Write short notes on any two of the following:

5+5

- (i) Metamorphosis in Amphibia
- (ii) Accessory respiratory organs in fishes
- (iii) Neurotoxic venom