UG 2nd Semester Examination-2025 (Under NCCF)

MINOR

Discipline: ZOOLOGY

Course Code: BSCZOOMN201

Course Name: Diversity of Chordates

Full Marks: 35   Time: 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Group — A

1. Answer any *five* questions: 5 x 1

   a) Name two animals that are known for using echolocation.

   b) Which part of the stomach in ruminants acts as the "true stomach"?

   c) Name the type of scale found in Rohu fish.

   d) What is rhamphotheca?

   e) What is Solenoglyphous?

   f) Name the organ which is known as bird's "voice box".

   g) Write one unique character of marsupials.

   h) Name the order of amphibians, characterized by having a tail and two pairs of limbs.

Group — B

2. Answer any *five* questions: 5 x 2

   a) What is meant by double respiration of *Columba* sp.

   b) "All vertebrates are chordates, but all chordates are not vertebrates." Justify.

   c) State two unique characteristics of cyclostomes.

   d) Give two examples of limbless amphibians.

   e) Differentiate between anadromous and catadromous migration.

   f) State the distribution of lung fishes.

   g) Write any two unique characters of *Sphenodon*.

   h) Give two differences between metatheria and eutheria.

Group — C

3. Answer any *two* questions: 2×5

   a) Describe the structure of the poison apparatus of snakes with a diagram.

   b) What is a neuromast? Describe its structure and function.   (2+3)

   c) Give a comparative account of monotremes and marsupials.

   d) Describe the aerial adaptations that help the birds to fly.

Group — D

4. Answer any *one* question: 1 x 10

    a) What is meant by metamorphosis? Describe the retrogressive metamorphosis of *Ascidia*.   (2+8)

    b) Describe the morphological adaptations present in bats that enable them to echolocate. How do bats benefit from echolocation?   (6+4)

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