

**BACHELOR OF SCIENCE (CBCS-2018 COURSE)**  
**S. Y. B. Sc. Sem-IV : WINTER :- 2021**  
**SUBJECT: ZOOLOGY : FUNCTIONAL ANATOMY OF CHORDATES-II**

**Day :** Wednesday  
**Date** 2/2/2022

**W-18386-2021**

**Time :** 02:00 PM-05:00 PM  
**Max. Marks:** 60

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**N.B. :**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat labelled diagrams **WHEREVER** necessary.

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**Q.1** Attempt **ANY TWO** of the following : (12)

- a) Describe digestive system of *Scoliodon*.
- b) Describe respiratory system of *Scoliodon*.
- c) Give salient features of class mammalia and state its different orders with examples.

**Q.2** Attempt **ANY TWO** of the following : (12)

- a) How would you distinguish between poisonous and non-poisonous snakes?
- b) Give an account of physiological adaptations in birds.
- c) Write in detail dentition in mammals.

**Q.3** Attempt **ANY TWO** of the following : (12)

- a) Give an account of beak modification in birds.
- b) Describe membranous labyrinth in *Scoliodon*.
- c) Describe structure of heart of *Scoliodon*.

**Q.4** Attempt **ANY THREE** of the following : (12)

- a) Explain order columbiformes.
- b) Describe subclass diapsida.
- c) Sketch and label dorsal view of brain of *Scoliodon*.
- d) Describe Ampulla of Lorenzini in *Scoliodon*.

**Q.5** Attempt **ANY FOUR** of the following : (12)

- a) Write a note on animal ethics.
- b) Explain running feet.
- c) Write economic importance of *Scoliodon*.
- d) Write note on raptorial feet.
- e) Write important characters of *Scoliodon*.
- f) Write a note on leg modification in duck.

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