	Name	24U330
Reg. No		

B.Sc. DEGREE END SEMESTER EXAMINATION - OCTOBER 2024 SEMESTER 3 : ZOOLOGY

COURSE: 19U3CRZOO3: ANIMAL DIVERSITY - CHORDATA

(For Regular 2023 Admission and Improvement/Supplementary 2022/2021/2020/2019 Admissions)

Time : Three Hours Max. Marks: 60

PART A Answer All (1 mark each)

- 1. Mention any two advantages of vocalization in birds.
- 2. What is the common name of the fish Amia calva?
- 3. Remember any two notable groups coming under synapsids.
- 4. What is the common name of *Narcine?*
- 5. What is meninges?
- 6. What is an osteoderm?
- 7. Remember the most notable characterizations of salps.
- 8. Point out the indication behind the name *Amphioxus*.

 $(1 \times 8 = 8)$

PART B Answer any 6 (2 marks each)

- 9. Explain the morphology of feeding apparatus in *Petromyzon*.
- 10. What is Cephalaspis?
- 11. Enlist the physical characteristics of lancelets.
- 12. Write the salient features of Insectivora. Give an example.
- 13. Outline the difference between oviparity and ovoviviparity with example.
- 14. Point out the different bones involed in the parapsidan skull. Mention its function.
- 15. Write a short note on Loris.
- 16. Archaeopteryx is often referred to as a "transitional fossil"..Respond to the statement.

 $(2 \times 6 = 12)$

PART C Answer any 4 (4 marks each)

- 17. Discuss the three major groups of reptiles based on temporal openings with examples.
- 18. Demonstrate the structure of frog heart with diagram.
- 19. Draw a neat diagram of the typical vertebra and describe it.
- 20. Outline the classification of tetrapods providing key features and example for each class.
- 21. Highlight the avian characters of archeopteryx used as a critical evidence to understand the evolution of modern birds.
- 22. Describe the body structure and nutrition in *Petromyzon* and its larva. How the adult and larva is different in feeding structure?

 $(4 \times 4 = 16)$

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PART D Answer any 2 (12 marks each)

- 23. Present the process of evolution in chordates with the help of a phylogenetic tree. Evaluate the evolutionary significance of *Amphioxus* in the context of chordate evolution.
- 24. Discuss the parental care exhibited by fishes.
- 25. Describe the structure of heart and its working in rabbit with a neat diagram of the heart.
- 26. Higlight the key physical characteristics that can help to distinguish venomous snakes from non-venomous ones. Use neat sketches.

 $(12 \times 2 = 24)$

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