

FOURTH SEMESTER B. Sc. DEGREE EXAMINATION, APRIL 2025
(Regular/Improvement/Supplementary)

ZOOLOGY

GZOL4B04T: ANIMAL DIVERSITY: CHORDATA PART- II

Time: 2 Hours

Maximum Marks: 60

SECTION A: Answer the following questions. Each carries *two* marks.

(Ceiling 20 marks)

1. What is pecten? Mention its function.
2. Distinguish between rectrices and remiges.
3. What is synsacrum? Comment on its significance.
4. Briefly explain the mechanism of cellulose digestion in rabbit.
5. Name the salivary glands of rabbit.
6. Comment on the significance of Jerdon's Courser in Indian Ornithology.
7. Enlist any four aquatic adaptations of penguin.
8. Write notes on 'Dodo'.
9. Enlist any four differences between Indian elephant and African elephant.
10. Distinguish between Platyrrhines and Catarrhines.
11. Mention any four flight adaptations found in Chiropterans.
12. Distinguish between mesonephros and metanephros kidneys.

SECTION B: Answer the following questions. Each carries *five* marks.

(Ceiling 30 marks)

13. Explain different types of air sacs and their roles in pigeon.
14. Describe the dentition in rabbit.
15. Discuss the evolutionary significance of Archaeopteryx.
16. Write the salient features of Super order Palaeognathae and cite two examples.
17. Discuss the similarities and differences between Metatheria and Eutheria.
18. Give an account on the aquatic adaptations of cetaceans.
19. Compare the heart of reptiles and mammals.

SECTION C: Answer any *one* question. The question carries *ten* marks.

20. With a neat labelled sketch, explain the digestive system of *Columba livia*.
21. With a labelled diagram, describe the structure and working of the heart of *Oryctolagus cuniculus*.

(1 × 10 = 10 Marks)