

FOURTH SEMESTER B. Sc. DEGREE EXAMINATION, APRIL 2024  
(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 zygodactyly?
2. Explain cellulose digestion in *Oryctolagus cuniculus*.
3. List down the adaptations that aid flight.
4. Write a note on Organ of Corti.
5. What is pigeon's milk?
6. Comment on the general features of Gorilla.
7. With aid of diagram describe hyoid apparatus of *Oryctolagus cuniculus*.
8. Comment on the significance of caecum in herbivorous mammals.
9. What is the developmental series of kidney from amphibians to mammals?  
Comment on mesonephros and metanephros kidney.
10. What is synsacrum? Mention its composition.
11. What are the important features of avian excretory system?
12. Comment on Pecten. Mention its function.

SECTION B: Answer the following questions. Each carries *five* marks.  
(Ceiling 30 Marks)

13. Archaeopteryx is a 'glorified reptile'. Justify.
14. Discuss the salient features of Orders Cetacea and Carnivora. Give two examples for each.
15. With aid of suitable diagrams describe the structure of feathers.
16. What are the volant adaptations in Chiroptera? Mention echolocation.
17. Discuss the feeding and digestion of *Columba livia*.
18. Explain the internal structure of mammalian heart with a suitable diagram.
19. Mention the comparative anatomy of nervous system in reptiles, birds and mammals emphasizing their unique features.

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

20. Describe the features of Orders containing flightless birds. Emphasize on the flight adaptations in Neognathae birds.
21. With the help of a labelled diagram, describe the digestive system of Rabbit.  
Add a note on dentition in Rabbit.

(1 x 10 = 10 Marks)