

FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION, APRIL 2021

Zoology

ZOL 4B 04T—ANIMAL DIVERSITY : CHORDATA—Part II

Time : Two Hours

Maximum : 60 Marks

Section A (Short Answer Questions)*Answer at least **eight** questions.**Each question carries 3 marks.**All questions can be attended.**Overall Ceiling 24.*

1. What is a heterocoelus vertebra ?
2. What are filoplumes ?
3. Mention the salient features of the order Piciformes.
4. What do you know about Jerdon's Courser ?
5. Write the important features of *Eudynamis*.
6. Explain the method of digestion of cellulose in *Oryctolagus cuniculus*.
7. Mention the eye glands and their functions in *Oryctolagus cuniculus*.
8. What are baleen whales ?
9. Stating the dental formula, explain the dentition in elephant.
10. Mention the salient features of the order Carnivora.
11. Compare the ventricles of the heart of Reptilia and Aves.
12. Compare the cerebellum of the brains of Aves and Mammalia.

(8 × 3 = 24 marks)

Section B (Paragraph Questions)*Answer at least **five** questions.**Each question carries 5 marks.**All questions can be attended.**Overall Ceiling 25.*

13. With a labeled diagram explain the structure of the pectoral girdle and sternum in *Columba livia*.
14. Mention the salient features of the order Sphenisciformes .Cite an example giving features and adaptations.

Turn over

15. Write an account on the recently extinct birds you have studied.
16. Explain the various cutaneous glands and their functions in *Oryctolagus cuniculus*.
17. Write the salient features of the order Artiodactyla. Mention two examples.
18. Mention the salient features of the infraclass Metatheria.
19. Compare the excretory systems of vertebrates.

(5 × 5 = 25 marks)

Section C (Essay Questions)

Answer any **one** question.

The question carries 11 marks.

20. With a labeled diagram explain the structure of the eye of *Columba livia*.
21. With illustrations explain the structure of the vertebral column of *Oryctolagus cuniculus*.

(1 × 11 = 11 marks)