

## FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2019

(CUCBCSS—UG)

Zoology

ZOL 4B 04—ANIMAL DIVERSITY CHORDATA—II

Time : Three Hours

Maximum : 80 Marks

## Part A

*Answer all ten questions.  
Each question carries 1 mark.*

Identify the correct answer :

1. The pneumatic bones are characteristic of :
  - (a) Mammals.
  - (b) Reptiles.
  - (c) Amphibia.
  - (d) Aves.
2. Which bird can fly backwards ?
  - (a) Albatross.
  - (b) Falcons.
  - (c) Humming bird.
  - (d) Penguin.
3. Which of the following bird is viviparous ?
  - (a) Ostrich.
  - (b) Penguin.
  - (c) Emu.
  - (d) Albatross.
4. Which of the following group contain mammals that lay egg ?
  - (a) Marsupial.
  - (b) Monotremes.
  - (c) Chiroptera.
  - (d) Rodentia.
5. Which of the following belongs to the order Primates ?
  - (a) Loris.
  - (b) Funambulus.
  - (c) Physester.
  - (d) Gaur.

Name or fill up the following :

6. The sound box of bird is known as \_\_\_\_\_.
7. The largest living bird is \_\_\_\_\_.

Turn over

8. The slowest mammal in the world.
9. The largest and most powerful flight muscle.
10. Number of chambers in the heart of Columba.

(10 × 1 = 10 marks)

### Part B

*Give short answers to any ten of the following questions.  
Each question carries 2 marks.*

11. What is the evolutionary significance of Archaeopteryx ?
12. Write short notes on Rhea.
13. Write the major features of the order Strigiformes and give one example.
14. Write the interesting features of 'elephant bird'.
15. Write short notes on Hemitragus.
16. How can one distinguish between rabbits and hares ?
17. Write short notes on Hylobates.
18. Write the specific characteristics of the order rodentia and give one example.
19. Write short notes on flying lemur.
20. Give a short account on food and feeding of baleen whales.
21. What is pecten in birds ?
22. What is corpus callosum ?

(10 × 2 = 20 marks)

### Part C

*Answer any five of the following questions in about a paragraph each.  
Each question carries 6 marks.*

23. Give a detailed account on dentition of *Oryctolagus*.
24. Give an account on respiratory tract of rabbit.
25. Give an account on lymphatic system of *Oryctolagus*.
26. Enumerate the reptilian features of mammalian sub class Prototheria with suitable example.
27. Give an account on habitat and adaptations of penguin.

28. Give an account on the arrangement, types and functions of feathers in Columba.
29. With suitable diagram describe internal ear of Columba.
30. Give an account on the habits of Columba.

(5 × 6 = 30 marks)

#### **Part D**

*Write an essay on any two of the following questions.*

*Each question carries 10 marks.*

31. Describe the digestive system of pigeon.
32. Make a comparative study on the heart of *Oryctolagus* and *Columba*.
33. With a suitable diagram describe the urinogenital system of *Oryctolagus*.
34. Give detailed account on the structure and working of photoreceptors of *Oryctolagus*.

(2 × 10 = 20 marks)