

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL/MAY 2015
(U.G.—CCSS)

Core Course—Zoology

ZO 4B 07—ANIMAL DIVERSITY—CHORDATA—II

(2013 Admissions)

Three Hours

Maximum : 30 Weightage

Answer all *twelve* questions. Each question carries 0.25 weightage.

A. Objective type questions :

1. The number of cranial nerves in Columba is :
(a) 10. (b) 20.
(c) 24. (d) 12.
2. Which one of the following bird has no syrinx ?
(a) *Rhea*. (b) *Corvus*.
(c) *Pavo*. (d) *Psittacula*.
3. Which one of the following is known flying fox ?
(a) *Pteropus*. (b) *Ostrich*.
(c) *Bubo*. (d) *Hawk*.
4. Which one of the following is an egg laying mammal ?
(a) *Bradypus*. (b) *Ornithorhynchus*.
(c) *Manis*. (d) *Armadillo*.

B. Name the following :

5. Name the genus of Peacock.
6. Name an extinct bird.
7. Name the animal commonly known as scaly ant eater.
8. Name the vocal sac of birds.

C. Fill in the blanks :

9. Pigeon's milk is the secretion of _____.
10. _____ is the genus of lion.

Turn over

11. _____ known as fossil bird.
12. _____ is the largest flightless bird.

(12 × 0.25 = 3 weightage)

II. Answer all *nine* questions :

13. What is pneumatic bone ? Mention it's function.
14. Write the scientific names of (a) Indian elephant ; (b) pigeon.
15. Write the morphological peculiarities of *Pteropus*.
16. What are baleen plates ? Mention their function.
17. What is meant by uropygium ?
18. What is synsacrum ?
19. Write notes on pecten.
20. What is preen gland ? Write it's function.
21. What is diastema ?

(9 × 1 = 9 weightage)

III. Answer any *five* questions :

22. Describe the respiratory system of *Columba*.
23. Explain the arterial system of Rabbit.
24. Enlist the salient features of Class Amphibia.
25. Describe the respiratory system of *Oryctolagus*.
26. Explain the reptilian characters of Prototheria.
27. Explain the zoological importance of *Archaeopteryx*.
28. Describe the different types of feathers in *Columba*.

(5 × 2 = 10 weightage)

IV. Answer any *two* of the following :

29. Write an essay on the migration of birds. Add notes on the flight adaptations of birds.
30. Compare the digestive system of *Columba* and *Oryctolagus*.
31. Describe the salient features of class birds. Add notes on the differences between Rati and Carinatae.

(2 × 4 = 8 weightage)