

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MAY 2015**Second Semester**

Complementary Course—Zoology

ANIMAL DIVERSITY—CHORDATA

(Common for B.Sc. Botany Model I, B.Sc. Family and Community Science, B.Sc. Botany and Biotechnology (Double Main), B.Sc. Clinical Nutrition and Dietetics, B.Sc. Food Science and Quality Control, B.Sc. B.T. and S.P., B.Sc. Aquaculture and B.Sc. Industrial Fish and Fisheries)

[2013 Admission onwards]

Time : Three Hours

Maximum : 60 Marks

Part A (Short Answer Questions)*Answer all questions.**Each question carries 1 mark.*

1. What are the adaptations of Narcine ?
2. Comment on Thaliacea.
3. What is retrogressive metamorphosis ?
4. Differentiate between Indian Elephant and African elephant.
5. What are the fundamental characters of phylum chordata ?
6. What is labyrinthine organ ? Explain its function.
7. Sketch and label atlas vertebra of frog.
8. What is binocular vision ?

(8 × 1 = 8)

Part B (Brief Answer Questions)*Answer any six questions.**Each question carries 2 marks.*

9. Write a note on aquatic adaptations of Chelone.
10. How can you differentiate a cobra and a krait ?
11. Comment on Neornithes.
12. Differentiate between Prototheria and Metatheria.
13. Explain the general characters of the Urochordata.
14. Classify class Amphibia upto order with example for each order.
15. Comment on the distribution and parental care shown by Ichthyophis.

Turn over

16. Explain choroid plexus in Frog.
17. Explain double mode of respiration in Frog.
18. Comment on the zoological importance of Latimeria.

(6 × 2 = 12)

Part C (Problems/Derivations)

*Answer any four questions.
Each question carries 4 marks.*

19. Describe flight adaptations of birds.
20. Explain the cranial nerves in frog.
21. Differentiate between Bony fishes and Cartilagenous fishes with suitable examples.
22. Write a note on habit, habitat and feeding adaptations of Bromchiostoma.
23. Write a short note on the distribution and body features of any two flightless birds.
24. Explain alternation of generation with reference to Salpa.

(4 × 4 = 16)

Part D (Long Answer/Problem Questions)

*Answer any two questions.
Each question carries 12 marks.*

25. Write an essay on the aquatic mammals and their adaptations.
26. Archaeopteryx is the connecting link between two main classes. Justify your answer with fossil evidences.
27. Explain the appendicular skeleton with girdles in frog with suitable diagrams.
28. Write an essay on general characters, affinities and ecological significance of agnatha.

(2 × 12 = 24)