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B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MAY 2024

Fourth Semester

Core Course—ANIMAL DIVERSITY—CHORDATA

(Common for B.Sc. Zoology Model I, Model II and B.Sc. Industrial Microbiology and Zoology)

[2013 to 2016 Admissions]

Time : Three Hours   Maximum Marks : 60

Part A

*Answer **all** questions.*
Each question carries 1 mark.
Answer not to exceed 30 words.

1. Synsacrum.   2. Paedogenesis.

3. Coprophagy.   4. Blubber.

5. Systole and Diastole.   6. Living fossil.

7. Foramen of monro.   8. Oikopleura.

(8 × 1 = 8)

Part B

*Answer any **six** questions.*
Each question carries 2 marks.
Answer not to exceed 50 words.

9. Illustrate the distribution of lung fishes.

10. Comment on the dentition in rabbit.

11. What is meant by Retrogressive metamorphosis ? Explain with an example.

12. Differentiate between Neurotoxic and Haemotoxic venom.

13. Differentiate between Agnatha and Gnathostomata.

14. Write an account on any two poisonous snakes.

15. Discuss the salient features of *Ichthyophis*.

16. With a suitable diagram, explain the structure of pectoral girdle in Rabbit.

Turn over

17. Give an account on the morphology of *Amphioxus*.

18. Differentiate between Cycloid and Ctenoid scales.

$(6 \times 2 = 12)$

Part C

*Answer any **four** questions.*
Each question carries 4 marks.
Answer not to exceed 150 words.

19. Discus the salient features of Artiodactyla citing suitable examples.

20. Differentiate between Prothotheria and Metatheria.

21. Explain the affinities of *Archaeopteryx*.

22. Explain the morphological features and significance of *Ammocoetes larva*.

23. Explain the mode of respiration in frog. Add a note on mechanism of respiration.

24. Distinguish between Osteichthyes and Chondrichthyes.

$(4 \times 4 = 16)$

Part D

*Answer any **two** questions.*
Each question carries 12 marks.
Answer not to exceed 400 words.

25. Write an essay on parental care in fishes.

26. Explain the flight adaptations in birds.

27. With suitable diagram, explain the arterial system in frog.

28. Classify amphibia upto orders citing suitable examples.

$(2 \times 12 = 24)$