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T – 3231

Reg. No. :

Name :

Second Semester B.Sc. Degree Examination, August 2024

First Degree Programme under CBCSS

Zoology

Core Course II

ZO 1241 : ANIMAL DIVERSITY II

(2019 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

Draw diagrams if specified in the question.

- I. Answer **all** questions in **one to two** sentences. Each question carries 1 mark.
 1. Give the function of the Wheel Organ in *Amphioxus*.
 2. What are Lung Fishes? Give an example.
 3. Comment on *Chimaera*.
 4. Mention the common name of *Pavo cristatus*.
 5. Define Tetrapoda.
 6. Comment on a Living Fossil from Fishes.
 7. Give the scientific name of a Blind Apodan.

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8. Name the poisonous snake in Kerala, which is Viviparous.
9. Which animal is regarded as "The Ship of the Desert"?
10. Write the Genus name of the Australian Kangaroo.

(10 × 1 = 10 Marks)

- II. Answer any **eight** questions out of twelve. Each question carries **2** marks and answers not to exceed one paragraph.
11. Contrast Chondrichthyes and Osteichthyes.
 12. What is Amplexus?
 13. Compare Holostei fishes and Teleost fishes.
 14. Comment on Alien fish species.
 15. Explain Neoteny, with an example.
 16. Distinguish Alligators from Crocodiles.
 17. Describe Accessory respiratory organs in fishes.
 18. How will you distinguish venomous snakes from the non venomous.
 19. Explore the Connecting link between reptiles and birds.
 20. Give the role of Chiroptera with regard to its habit and habitat.
 21. What are Zoonoses? Give an example.
 22. Mention the diversity of Rodents in the backyard.

(8 × 2 = 16 Marks)

III. Answer any **six** out of nine questions. Each question carries **4** marks, each answer not to exceed **120** words.

23. Give the diagnostic features of sub-phylum Cephalochordata.
24. Comment on the Ascidian Tadpole larva.
25. List any eight edible food fishes of Kerala.
26. Mention the evolutionary significance of *Sphenodon*.
27. With *Ascidia* as an example, explain Retrogressive Metamorphosis.
28. Explain the various modes of Respiration seen in Frogs.
29. List the Sub-classes of Reptilia, giving an example each.
30. Briefly write upon different Feathers in Pigeon.
31. Add a note on Mammalian Dentition.

(6 × 4 = 24 Marks)

IV. Answer any **two** out of four questions. Each question carries **15** marks.

32. Discuss any four Flightless Birds, giving their geographical areas.
33. Illustrate the Digestive System in Frog, with a diagram.
34. Explore the Orders in Class Mammalia, with an example each.
35. Review Snake Poisons, and their mode of action.

(2 × 15 = 30 Marks)