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Reg. No. : .....

Name : .....

Second Semester B.Sc. Degree Examination, December 2021.

First Degree Programme under CBCSS

Zoology

Core Course – II

ZO1241 – ANIMAL DIVERSITY II

(2020 Admission Regular)

Time : 3 Hours Max. Marks : 80

Draw diagrams only if specified in the question.

I. Answer **all** the questions in one or two sentences.(Each question carries **1** mark).

1. What is the common name of *Etroplus suratensis?*
2. Mention the scientific name of the Tiger Salamander.
3. Name the only Reptile species that have four-chambered heart.
4. Why is the Genus of King Cobra named *Ophiophagus?*
5. Name the State bird of Kerala.
6. What are Prototherians?
7. Mention the Order in which Sea Cows belong to.
8. Write the scientific name of the national bird of India.
9. Which animal exhibit retrogressive metamorphosis?
10. What are Dendriform Organs?

(10 × 1 = 10 Marks)

P.T.O.

II. Answer **any eight** of the following. (Each question carries **2** marks). Answer should not exceed one paragraph each.

11. What are Solenocytes?
12. Comment on the Order Chiroptera.
13. Give the significance of Pectoralis major.
14. List any three adaptations seen in the Owl.
15. Why is *Ptyas nucosus* considered as a friend of man?
16. Give the evolutionary significance of *Sphenodon*.
17. What are Stem Reptiles?
18. Comment on Lung Fishes.
19. Distinguish Catadromous from Anadromous migration.
20. Give a short account on *Oikopleura*.
21. Distinguish Agnata from Gnathostomata.
22. What is neoteny? Give an example.
23. Give the characteristic features of Apoda, with an example.
24. Describe the various Sub classes of Reptilia.
25. Explain Discontinous distribution citing examples.
26. Give a short account on *Latimeria*.

(8 × 2 = 16 Marks)

III. Answer **any six** of the following. (Each question carries **4** marks). Answer should not exceed **120** words.

27. Explain parental care in fishes giving an example.
28. Bring out the affinities of *Echidna* with Reptilia.
29. Describe the adaptations for an aquatic life seen in whales.
30. How are the ostriches equipped to survive the desert environment?
31. Give the diagnostic features of Russel's Viper.

32. Give the taxonomic position of Kangaroo upto the sub-class level.

33. List the Classes of Subphylum Urochordata, giving an example each.

34. Mention the feeding behavior of Amphioxus.

35. Give the scientific name of the national fish of India.

36. Mention the salient features of Thaliacea.

37. Comment on any one Blind snake.

38. What are Alien Fishes?

(6 × 4 = 24 Marks)

IV. Answer **any two** of the following. (Each question carries **15** marks).

39. Give an account on Chordate characters, giving suitable examples.

40. Write an essay on Aquatic Mammals and their adaptations.

41. Explain role of Accessory Respiratory organs in fishes, with examples.

42. Describe the identification of Poisonous snakes using an Identification Key.

43. Give a comparative account of the Arterial system in Amphibia and Reptilia.

44. Write an essay on Flightless Birds.

(2 × 15 = 30 Marks)