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P – 1282

Reg. No. :

Name :

Second Semester B.Sc. Degree Examination, September 2022

First Degree Programme under CBCSS

Zoology

Complementary Course for Botany, Home Science and Bio-Chemistry

ZO 1231.1 : ANIMAL DIVERSITY – II

(2020 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

I. Answer **all** questions in **one** or **two** sentences.

1. What is the test or house?
2. What is cephalization?
3. Write down the ecological significance of *Echeneis*.
4. What is plastron?
5. What is Syrinx of birds?
6. Notes on the limbless amphibian.
7. What is marsupium?
8. Name the scientific name of our national animal.
9. Name the types of caudal fins found in sharks and mackerel.
10. Name an aquatic mammal and arboreal mammal each.

(10 × 1 = 10 Marks)

P.T.O.

II. Answer any **eight** questions.

11. What is the atrium in amphioxus? What is its function?

12. Classify the following into the respective Vertebrata classes :

(a) Lycodon

(b) Kiwi

(c) Loris

(d) Ambystoma

13. Write adaptations of Chiroptera.

14. Comment on different types of feathers in birds.

15. Distinguish Scoliodon and Trygon.

16. Give an account of axolotl larva and its importance.

17. Give an account of migration in *Anguilla*.

18. Give an account on kangaroos.

19. Identify the following vertebrates whose common name has given below :

(a) Pearl spot

(b) Electric ray

(c) Flying frog

(d) Sea horse

20. Differentiate Ratiate and Carinate.

21. Comment on *Hydrophis*.

22. Write adaptations of aquatic mammals.
23. Notes on Petromyzon.
24. What is the importance of Ptyas.
25. Distinguish Agnatha and Gnathostomata.
26. What is the difference between oviparity and ovoviviparity, give each example.

(8 × 2 = 16 Marks)

III. Answer any **six** questions.

27. Write on fundamental characters of Chordata.
28. Describe the morphology of Amphioxus, and draw the diagram.
29. Write down the characters of Tunicates.
30. Write notes on the Lizards of Kerala.
31. Describe the salient features of class Amphibia.
32. Write notes on the arboreal adaptation of *Draco*.
33. Describe aquatic adaptations of fishes.
34. Give a note on salient features of the class Reptilia.
35. What is retrogressive metamorphosis? Describe regarding Ascidian tadpole.
36. Write notes on special features of the following :
 - (a) Naja
 - (b) Chameleon
 - (c) Chelone
 - (d) Rhacophorus

37. Describe the structure of the placoid scale with a diagram.

38. Describe the morphology of the shark.

(6 × 4 = 24 Marks)

IV. Answer any **two** questions.

39. Explain the identification key for poisonous and non-poisonous snakes with examples.

40. Explain the characteristic features of poisonous snakes. Add notes on the types of snake venom and its mode of action on a victim.

41. Write an essay on flight adaptations in birds.

42. Describe the general characters of class Aves. Add notes on flying and flightless birds and example.

43. Describe the characters of class and Mammalia. Explain the different groups of mammals with suitable examples.

44. Describe the general characters and classification of the phylum chordate with example.

(2 × 15 = 30 Marks)