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Reg. No. : .....

Name : .....

Second Semester B.Sc. Degree Examination, December 2021

First Degree Programme under CBCSS

Complementary Course for Botany, Home Science and Bio-Chemistry

ZO 1231.1 – ANIMAL DIVERSITY II

(2015 – 2019 Admission)

Time : 3 Hours Max. Marks : 80

Draw diagrams only if specified in the question.

SECTION – A

Answer **all** the questions in a word or **one** or **two** sentences. Each question carries **1** mark.

1. What is wheel organ?
2. What are neuromast organs?
3. Give the scientific name of Mackerel.
4. What is heterocercal caudal fin?
5. Which was the golden age of reptiles?
6. Name two non-poisonous snakes of Kerala.
7. What is catadromous migration? Give an example.

P.T.O.

8. What is furcula?

9. Write the scientific name of the national bird of India.

10. Name a pouched mammal.

(10 × 1 = 10 Marks)

SECTION – B

Answer **any eight** questions. Each question carries **2** marks. Answer not to exceed **one** paragraph.

11. List the diagnostic features of Phylum Chordata.

12. Distinguish between *Osteichthyes* and *Chondrichthyes*.

13. Write any four morphological peculiarities of *Hippocampus*.

14. Mention any four arboreal adaptations of *Chameleon*.

15. What is the role of pecten in the eye of birds?

16. Distinguish between diapsid and synapsid skull.

17. What is the codont dentition? Give an example.

18. Give the scientific name of the following.

    (a) Tiger

    (b) Pigeon.

19. What is synsacrum? How is it formed?

20. Comment on the electric organ of *Narcine*.

21. Give an example of an egg laying mammal and its place of occurrence.

22. Give an account of the Genus *Icthyophis*.

(8 × 2 = 16 Marks)

SECTION – C

Answer **any six** questions. Each question carries **4** marks. Answer not to exceed **120** words.

23. What are the salient features of Agnatha?

24. Explain retrogressive metamorphosis with example.

25. Write an account of *Amblystoma* larva.

26. Describe the arboreal adaptations of *Draco*.

27. Describe the different types of feathers in Pigeon.

28. Enumerate the aquatic adaptations of whale.

29. Comment on the running adaptations of *Struthio*.

30. Mention any four salient features of Class Mammalia.

31. Write the evolutionary significance of *Archaeopteryx*.

(6 × 4 = 24 Marks)

SECTION – D

Answer **any two** questions. Each question carries **15** marks. Answer as long essay type.

32. Write an account on common poisonous snakes of Kerala. Add notes on different types of venom and their action.

33. Write an essay on the flight adaptations of birds.

34. With the help of a diagram explain the structure of *Amphioxus*. Discuss the affinities of it to Non-chordata and chordata.

35. Write an account on the economically important fishes of Kerala.

(2 × 15 = 30 Marks)
