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Reg. No. : .....

Name : .....

Second Semester B.Sc. Degree Examination, May 2020

First Degree Programme under CBCSS

Zoology

Core Course

ZO 1241 : ANIMAL DIVERSITY II

(2015–2018 Admission)

Time : 3 Hours Max. Marks : 80

I. Answer **all** questions with two diagnostic features (**one** mark each)

1. Oikopleura.
2. Protopterus
3. Acipenser
4. Ichthyophis
5. Chameleon
6. Alligator
7. Eryx
8. Struthio
9. Galeopithecus
10. Manis.

(10 × 1 = 10 Marks)

P.T.O.

II. Answer **any eight** of the following (**two** marks each).

11. Define heterocercal caudal fin. Give an example.

12. Write the peculiar features of interest in Crocodiles.

13. List the volant adaptations of Pteropus.

14. Define Neoteny. Give an example.

15. Comment on feeding adaptations of Petromyzon.

16. Adaptive modifications of Echeneis.

17. Write notes on desert adaptations of camel.

18. Distinguish between Indian and African elephant.

19. Comment on Latimeria.

20. Write the scientific names of state fish and state bird of Kerala.

21. Comment on Evolutionary significance of Ostracodermi.

22. Define dental formula. Explain with an example.

(8 × 2 = 16 Marks)

III. Answer **any six** of the following (**four** marks each)

23. Distinguish between Urochordata and Cephalochordata.

24. Give an account on types of feathers in birds.

25. Add a note on accessory respiration in fishes.

26. Explain retrogressive metamorphosis with example.

27. Write the scientific names of two poisonous and two nonpoisonous snakes.

28. List any eight general characters of Amphibia.

29. Sketch and label the cross section of heart in man.

30. Give an account on Lung fishes.

31. Comment on egg laying mammals.

(6 × 4 = 24 Marks)

IV. Answer **any two** of the following (**fifteen** marks each)

32. Write an essay on aquatic adaptations of mammals.

33. Give an Outline classification of class Reptilia. Mention the subclasses with salient features and examples for each.

34. Write an account on migration in birds.

35. Write a comparative account on brain of vertebrates.

(2 × 15 = 30 Marks)
