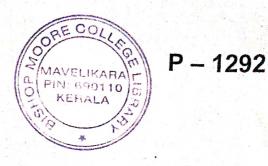
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Second Semester B.Sc. Degree Examination, September 2022 First Degree Programme Under CBCSS

Zoology

Core Course II

ZO 1241 - ANIMAL DIVERSITY II

(2020 Admission Onwards)

Time: 3 Hours

Max. Marks: 80

Draw diagrams wherever necessary.

- I. Answer all questions in one or two sentences. Each question carries 1 mark.
- Write the dental formula of Proboscidea.
- 2. What is paedogenesis?
- 3. Which is the larva of Petromyzon?
- 4. Write down the significance of blubber in aquatic mammals.
- Define neoteny. Give one example.
- 6. What is Bidder's canal?
- 7. Give the scientific names of any two flightless birds.
- 8. Name any two obligate hibernators.

- 9. What is an opisthocoelous vertebrae?
- 10. Briefly explain syrinx.

 $(10 \times 1 = 10 \text{ Marks})$

- II. Answer any eight questions out of sixteen. (Each question carries 2 marks and answers should not exceed one paragraph)
- 11. Write on the arboreal adaptations of Chameleon.
- 12. What is a neurotoxic venom? Give an example.
- 13. Mention the reptilian characters of Archaeopteryx.
- 14. Write on antlers and horns.
- 15. What are the volant adaptations of Bat?
- 16. Enlist the salient features of Dipnoi.
- 17. Mention any two crocodilian features of Sphenodon.
- 18. Differentiate physostomous and physoclistous type of swim bladders.
- 19. Write a note on Nasikabatrachus.
- 20. Briefly explain the preparation of anti-venom serum.
- 21. Mention the importance of Ascidian tadpole.
- 22. Comment on the economic importance of Tuna.
- 23. Give an account on the feeding behaviour in Amphioxus.
- 24. What is the difference between remiges and rectrices?
- 25. Briefly explain heterocercal and homocercal tails.
- 26. How do egg laying mammals differ from other mammals?

 $(8 \times 2 = 16 \text{ Marks})$

- III. Answer any six questions out of twelve. (Each question carries 4 marks; each answer should not exceed 120 words)
- 27. Explain mechanism of Pulmonary respiration in frog.
- 28. Enlist the features of Paleognathae with an example.
- 29. Give an account on parental care in amphibia.
- 30. Explain the different cranial nerves of frog.
- 31. Describe the salient features of Salpa.
- 32. Comment on any two aquatic mammals.
- 33. Write on the desert adaptations of Ostrich.
- 34. Explain the general organisation of Larvacea with an example.
- 35. Enumerate the salient features of Metatheria.
- 36. What is a zoonotic disease? Explain any two viral zoonoses.
- 37. Give the distinct features of class Chondrichthyes.
- 38. Discuss and compare the biology and morphology of Naja and Vipera.

$$(6 \times 4 = 24 \text{ Marks})$$

- IV. Answer any two out of six questions. (Each question carries 15 marks)
- 39. Write an essay on migration in birds.
- 40. Give a comparative and account of the brain of amphibia and reptiles.
- 41. Describe the dentition in mammals.
- 42. Classify reptilia up to orders giving important characters and suitable examples.
- 43. Give an account on the accessory respiratory organs in fishes.
- 44. Describe the structure and working of heart of frog.

 $(2 \times 15 = 30 \text{ Marks})$