Reg No:..... K24FY 1450 (C)
Name :.....

First Semester FYUGP Forestry Examination NOVEMBER 2024 (2024 Admission onwards) KU1DSCFOR103 (INTRODUCTION TO WILDLIFE SCIENCES)

(DATE OF EXAM: 6-12-2024)

Time : 90 min Maximum Marks : 50

Part A (Answer any 6 questions. Each carries 2 marks)

1. How do instincts differ from learned behaviors in wild animals? Provide examples of each. 2

2. Explain the importance of the diaphragm in mammalian anatomy. 2

3. Describe the difference between placental, marsupial, and monotreme mammals. 2

4. Define zoogeography and explain its importance in studying Indian mammals. 2

5. What are the primary modes of reproduction in amphibians and reptiles? 2

6. List three key differences between amphibian and reptilian reproductive strategies. 2

7. Explain the term "antivenom" and describe its role in the treatment of snake bites. 2

8. Discuss the challenges associated with ex situ conservation efforts. 2

Part B (Answer any 4 questions. Each carries 6 marks)

9. Evaluate the different types ecological values provided by wildlife. How do these services contribute to the overall health of the planet? 6

10. Design an informative guide about the role of mammary glands in mammalian care. 6

11. Discuss the implications of India's zoogeography for animals conservation, focusing on endemic species and regions with high endemism. 6

12. Evaluate how temperature-dependent sex determination (TSD) in reptiles can influence population dynamics under changing climate conditions. 6

13. Analyze the role of environmental changes, such as habitat destruction and climate change, in the increasing frequency of human-snake encounters. Apply this analysis to suggest measures that could mitigate these risks in local communities. 6

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14. Write an article on the significance of preserving biodiversity hotspots. 6

Part C (Answer any 1 question(s). Each carries 14 marks)

15. Analyze the impact of climate change on conservation efforts in India, particularly regarding species such as the snow leopard or the Indian rhino. 14

16. Evaluate the effectiveness of survival strategies such as aestivation, hibernation, torpor, and diapause in animals inhabiting extreme environments. Create a table comparing these adaptations, and propose additional behavioral or physiological adaptations that could enhance survival in each specific environment. 14

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