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FIRST SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2024

(CUFYUGP)
ZOO1MN101 Foundations of Environmental Biology and Animal Behaviour
2024 Admission onwards

Maximum Time :2 Hours	Maximum Marks :70

Section A
All Questions can be answered. Each Question carries 3 marks (Ceiling : 24 Marks)

1	Explain the differences between autoecology and synecology.
2	What are the biotic and abiotic components of an ecosystem? Provide examples of each.
3	What is decomposition, and why is it crucial for nutrient cycling?
4	What are the key characteristics of the tundra biome?
5	Describe how animals are adapted to live in freshwater habitats.
6	What are the key features of the National Water Policy, 2002?
7	Explain biotic potential and its significance in population ecology.
8	Discuss orientation in animal behavior.
9	List three scientists who were awarded the Nobel Prize in 1972-73 for their contributions to the study of animal behavior.
10	Write on social organization of elephants.

Section B
All Questions can be answered. Each Question carries 6 marks (Ceiling : 36 Marks)

11	Discuss energy flow in ecosystems and how the laws of thermodynamics are connected to it.
12	Give an account of deep sea fauna with special reference to their adaptations.
13	What are the characteristics of freshwater habitats, and how do they differ from marine habitats?
14	Analyze the impact of predation and herbivory on community structure.
15	Discuss the Solid Waste Management Rules, 2016 in India and assess their effectiveness in addressing solid waste pollution.
16	Compare different types of population growth curves and their effects on population size and sustainability.
17	How can conditioned reflexes be used to train domestic animals? Provide two specific examples.
18	'Fixed action patterns are elicited by sign stimuli.' Substantiate the statement giving examples.

Section C
Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)

19	Explain the major steps involved in the nitrogen cycle and include a note on the impact of human activities on it.
20	Discuss various communication methods in animal interactions.