Reg No:..... K24FY 1496 (B)
Name :.....

First Semester FYUGP Zoology Examination
NOVEMBER 2024 (2024 Admission onwards)
KU1DSCZOO102 (ANIMALS AND ENVIRONMENT)
(DATE OF EXAM: 4-12-2024)

Time : 90 min Maximum Marks : 50

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

1. Describe the adaptations of organisms inhabiting intertidal rock shore. 2
2. What is Batesian mimicry? Give one example 2
3. Define the food chain. Provide an example. 2
4. Explain what is meant by an inverted pyramid of biomass. What does it indicate? 2
5. Discuss biological nitrogen fixation. 2
6. What is nitrification and denitrification? 2
7. What is meant by gamma diversity 2
8. List out the ecological values of biodiversity. 2

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

9. Generate the features of the Tundra biome 6
10. Develop the key roles of dispersal in shaping the distribution of animal species. 6
11. Construct a model of pyramid of energy, number and biomass to explain the energy transfer through different trophic levels. 6
12. Construct a carbon cycle. 6
13. Formulate differences between genetic diversity, species diversity, and ecosystem diversity. 6
14. Design a reintroduction program for a species using both in-situ and ex-situ conservation strategies. 6

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

15. Examine the major causes for the loss of biodiversity 14
16. Examine the term biodiversity and evaluate the values of biodiversity. Add notes on the ethical dimension of biodiversity 14

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