

QP Code : U24A074

Reg. No : .....

Name : .....

**ST MARY'S COLLEGE (AUTONOMOUS), THRISSUR-20**

**I SEMESTER B.A. / B.Sc / B.Com / BSW (FYUGP) DEGREE EXAMINATION,  
November 2024**

**ZOO1MN101 : FOUNDATIONS OF ENVIRONMENTAL BIOLOGY &  
ANIMAL BEHAVIOUR**

**2024 Admission Onwards**

**(Credits: 4)**

**Time : 2 Hours**

**Maximum Marks : 70**

**Section A**

*[Answer all. Each question carries 3 Marks] (Ceiling: 24 Marks)*

1. Mention 4 key figures in the field of Ethology. [BTL1]
2. Explain the term Grazing Food chain. [BTL1]
3. What is the Sedimentary cycle? [BTL2]
4. Mention adaptations of Desert fauna. [BTL1]
5. Demonstrate how hormones regulate behavior. [BTL3]
6. Explain how Cooperation enhances the survival of species. [BTL3]
7. Define the Biogeochemical cycle. [BTL1]
8. Summarize the adaptations of animals living on Sandy seashores. [BTL2]
9. Mention adaptations of Tundra fauna. [BTL1]
10. Discuss the ecological roles of Heterotrophs in nutrient cycling. [BTL4]

**Section B**

*[Answer all. Each question carries 6 Marks] (Ceiling: 36 Marks)*

11. Explain the concept of energy flow in ecosystems and how the laws of thermodynamics apply to it. [BTL1]
12. Describe adaptations of forest fauna. [BTL4]
13. Express the differences in S-shaped and J-shaped population growth curves. [BTL3]
14. Based on Environmental laws enumerate the initiatives for promoting sustainable practices for environmental protection. [BTL4]
15. Describe Learned Behaviour. [BTL1]
16. Illustrate the significance of Pheromones. [BTL3]
17. Analyze the differences between lentic and lotic habitats. [BTL4]
18. Describe Herbivory and Allelopathy. [BTL1]

**Turn Over**

**Section C**

*[Answer **any one**. Each question carries **10 Marks**] (1x10=10 Marks)*

19. What are the Biotic and Abiotic components of an ecosystem, and how do they interact with each other? [BTL3]

20. What is Innate Behaviour? Analyze the various Innate behaviours in animals. [BTL5]

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