

**B. Sc. (Hons.) Botany / Semester : IV**

**Title of paper: Ecology (Core)**

**Unique Code : 32161402**

**Duration : 3 Hours + 1 hour**

**Maximum Marks : 75**

**Write the following details on your answer sheet:**

- a. Date and time of examination (DD/MM/YYYY):
- b. Examination Roll Number:
- c. Name of the Program:
- d. Semester:
- e. Unique Paper Code:

*Attempt any four questions in all. All questions carry equal marks. Supplement your answers with diagrams.*

1. Define any **NINE** of the following terms: Niche, Net Primary Productivity, Ecotone, Pedogenesis, Homeostasis, Commensalism, Biome, Normal Biological Spectrum, Food web, Ecad, Autecology, Stenothermal. 18.75
2. Write short notes on any **THREE** of the following: Endemism, Theory of Tolerance, Soil Profile, Age Pyramids, Evidences for Continental Drift Theory. 18.75
3. Give an account of different types of water in the soil. Describe four adaptations of Xerophytes with specific generic examples. 18.75
4. What are the different methods employed to study the vegetation of an area? Elaborate on the stages of succession in Hydrosere. 18.75
5. Briefly describe an energy flow model in an ecosystem. Write an explanatory note on the nitrogen biogeochemical cycle. 18.75
6. How is the study of analytical characters of community different from the synthetic characters? Explain with **three** characters from each type. 18.75



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