

**B. Sc. General Examination**  
**(Under CBCS Pattern)**  
**Semester: II**  
**Sub: Botany**  
**Paper: DSC- 1B (Theory and Practical)**  
**(Plant Ecology and Taxonomy)**

**Part A: Plant Ecology and Taxonomy(Theory)**

Answer any **one question** from the following (Within 200 words):

1. Write the functions of Herbarium. Write the importance of Botanical garden.
2. Write an account on Bentham & Hooker classification
3. Write in brief about ICBN.
4. Write about keys of flora.
5. Write short note on, a. Binomial system. b. Type method. c. Author citation. d. Valid publication.
6. Discuss the concept of food chains. What are food webs? Discuss briefly.
7. What is chemotaxonomy? Write the application of chemical data to the problems of taxonomy.
8. Describe briefly about nitrogen cycle.
9. Define following Endemism. Ecotone & Edge effect
10. What is plant Succession? Describe briefly the various steps in the process of succession.

**Part B: Plant Ecology and Taxonomy(Practical)**

Answer any **one question** from the following (Within 200 words):

1. Describe the principle, requirements & procedure for study of biological specimen of a piece of vegetation in our college campus by Raunkiaer's method.
2. Describe the procedure for determining the flora of a vegetation in our college campus by quadrat method.
3. Give the principle & procedure for determining percentage of carbon of the soil sample collected from the garden of our college.
4. Give the procedure for study of vegetative & floral characters of the following plants. a. Brassica. b. Solanum. c. Oscimum. d. Tridax

5. Describe the principle & procedure for the study of morphological characters of hydrophytes & Xerophytes.
6. What is pH? Give the procedure for determination of pH of soil sample of a garden. Give the procedure for using soil thermometer.