

**B. Sc. Honours Examination
(Under CBCS Pattern)
Semester: IV
Sub: Botany
Paper: CC9 (Theory and Practical)
(Plant Ecology and Phytogeography)**

Part A: Plant Ecology and Phytogeography(Theory)

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

1. What is soil? Describe its formation briefly.
2. Describe briefly about Ecotone & edge effect. What is succession? Describe different types of succession.
3. Discuss briefly the structure of ecosystem. Define ecological pyramids & discuss their types.
4. Discuss biogeochemical cycles. Discuss carbon cycle.
5. What are the characteristics of population? Comment on ecological speciation.
6. Briefly discuss soil water & its classification
7. Explain how light & temperature affect environment.
8. Discuss briefly the various steps in the process of succession.
9. What is endemism? What are endemic species? Give two example.
10. Write short note on a. commensalism. b. parasitism. c. standing crop. d. climax.

Part A: Plant Ecology and Phytogeography (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. 3. oscimum. 4. 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.
7. Give the procedure for using soil thermometer.
8. Write the methods&techniques employed in the ecological field study.