

B.Sc. 3rd Semester (Honours) Examination, 2022 (CBCS)**Subject : Botany****Course : CC-V****(Plant Ecology and Phytogeography)****Time: 2 Hours****Full Marks: 40**

*The figures in the margin indicate full marks.
Candidates are required to give their answers in their
own words as far as practicable.*

- 1. Answer any five of the following questions:** 2×5=10
- What is autecology?
 - Define homeostasis.
 - What is edge effect?
 - Define commensalism.
 - What is ecotone?
 - Write two adaptive features of xerophytic plants.
 - What do you mean by biogeochemical cycle?
 - Define endemism.
- 2. Answer any two of the following questions:** 5×2=10
- What is food chain? Write a brief account of grazing food chain. 2+3
 - Write a brief note on composition and biological components of soil. 2½+2½
 - Write a short note on allopatric and sympatric speciation. 2½+2½
 - Mention the characteristic feature of tropical biome. 5
- 3. Answer any two of the following questions:** 10×2=20
- What do you mean by plant succession? Describe the various stages of succession in hydrosere. 2+8
 - Define ecosystem. Describe different components of ecosystem. 2+8
 - Write short notes: 5+5
 - Habitat and niche
 - Continental drift
 - What is phytogeography? Give an account of the characteristic flora in the mangrove vegetation of Sunderbans, West Bengal. 2+8