

**SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2023****(Regular/Improvement/Supplementary)****BOTANY****GBOT6B13T: ENVIRONMENTAL SCIENCE****Time: 2 Hours****Maximum Marks: 60****SECTION A: Answer the following questions. Each carries *two* marks.  
(Ceiling 20 Marks)**

1. What do you mean by a Pioneer community? What are its features?
2. Briefly explain Ephemerals with the help of examples.
3. How the excess salt absorbed by a halophyte gets eliminated from its body?
4. What is Red Data Book? What is its importance?
5. Which are the various *ex situ* conservation methods?
6. What is Air Quality Index? What does it indicate?
7. Which are the Mega biodiversity nations of the world?
8. What is el-nino? What are its consequences?
9. Comment on Biomagnification.
10. Differentiate between Lentic and Lotic ecosystems.
11. What do you mean by a Phytograph? How is it constructed?
12. What is a Species Area Curve? How is it significant?

**SECTION B: Answer the following questions. Each carries *five* marks.  
(Ceiling 30 Marks)**

13. Describe the Nitrogen cycle with the aid of a flow chart
14. Differentiate between the morphological and anatomical adaptations of hydrophytes and xerophytes.
15. Give short notes on IUCN and NBPGR.
16. What is biodiversity? Which are its different levels? What are the threats?
17. Trace out the sources and control measures of water pollution.
18. Describe the various phytotechnological approaches used to control pollution.
19. Delineate the features of estuarine ecosystems.

**SECTION C: Answer any *one* question. Each carries *ten* marks.**

20. Describe the various techniques involved in plant community studies.
21. What do you mean by Hydrarch succession? Describe the various steps involved in it

**(1 × 10 = 10 Marks)**