

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2024**(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 is net primary production?
2. Write a short note on temperate grass lands.
3. What is Phytograph?
4. List out four adaptations of xerophytes.
5. Differentiate between Lentic & Lotic ecosystems.
6. Name three zones of Biosphere and give an example for Biosphere Reserve in India.
7. Write a note on environmental legislations in India.
8. What is El Niño?
9. Comment on IUCN.
10. Give a brief account on the abiotic components of an ecosystem.
11. Distinguish between Indicator species & Umbrella species.
12. Define Biomagnification with an example.

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

13. Why India is considered as a mega diversity nation? Add a note on Biodiversity hotspots.
14. Briefly explain the Quadrat sampling method in plant community studies.
15. What are the key steps in the nitrogen cycle, and how does nitrogen move through the biogeochemical cycle?
16. Briefly explain the different methods for solid waste management.
17. Explain the role of KSBB & WWF in biodiversity conservation.
18. Write a note on Ecological Pyramids with diagrams.
19. How does the enhanced greenhouse effect caused by human activities contribute to global warming?

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

20. Write an essay on major ecosystems.
21. What is ecological succession? Explain the mechanism of succession in hydrosere.

(1 x 10 = 10 Marks)