

B.Sc. DEGREE END SEMESTER EXAMINATION : OCTOBER 2022**SEMESTER – 5: BOTANY****COURSE: 19U5CRBOT6 : ENVIRONMENTAL SCIENCE AND ECOTOURISM***(For Regular - 2020 Admission and Supplementary - 2019 Admission)*

Time: Three Hours

Max. Marks: 60

PART A**Answer All (1 mark each)**

1. What are umbrella species?
2. Expand WWF.
3. Name two green house gases.
4. What is eutrophication?
5. Briefly describe xerosere.
6. What is climax community?
7. Define food web.
8. What is the difference between *in situ* and *ex situ* conservation methods?

(1 x 8 = 8)**PART B****Answer any 6 (2 marks each)**

9. What are the contributions of Sunderlal Bahuguna?
10. Mention the recommendations of Wildlife protection act.
11. Explain the causes and impacts of Minamata disease.
12. What are the major recommendations of Rio Earth Summit?
13. What are ecological indicators?
14. How ozone depletion occurs?
15. Give a positive and negative impact of alien species.
16. Name two sources of thermal pollution.
17. What are the factors influencing endemism?
18. Name two ecotourism centers in Kerala.

(2 x 6 = 12)**PART C****Answer any 4 (5 marks each)**

19. What are the biotic factors and their interactions which influence plant growth?
20. What are the major causes of changing ecological communities and what are the implications?
21. Write a detailed note on different type of plant adaptations with their environment.
22. Briefly describe the conservation efforts of UN FCCC.
23. Write a note on ecotourism resources.
24. Categorize protected areas and explain its significance.

(5 x 4 = 20)

PART D

Answer any 2 (10 marks each)

25. Discuss the factors which affect plant growth in an ecosystem.
26. Discuss the types and significance of biogeochemical cycles with special reference to Nitrogen Cycle.
27. Explain what you mean by ecological succession with the special reference of succession progress from hydric to mesic condition.
28. What is ecology and how does it help conservation?

(10 x 2 = 20)
