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M – 1517

Reg. No. :

Name :

Fifth Semester B.Sc. Degree Examination, December 2021

First Degree Programme Under CBCSS

Botany

Core Course

BO 1542 – ENVIRONMENTAL STUDIES AND PHYTOGEOGRAPHY

(2019 Admission)

Time : 3 Hours

Max. Marks : 80

I. Answer **all** questions in one word or sentence.

1. Expand UNEP and WWF.
2. Define deforestation.
3. What is biodiesel?
4. Define ecosystem.
5. What is nudation?
6. What is Pneumatophore?
7. What is red data book?
8. Name a Ramsar site in Kerala.
9. Define acid rain.
10. What is relic endemics?

(10 × 1 = 10 Marks)

P.T.O.

II. Answer **any eight** questions, short answer (Not to exceed one paragraph).

11. Comment on degradation of water resources.
12. How overgrazing cause degradation of biodiversity?
13. Comment on the importance of rain water harvesting.
14. Importance of solar energy as a renewable energy resource.
15. What is food web?
16. What do you understood by the term afforestation?
17. What is the peculiarity of the pyramid of energy?
18. What are the major Anatomical adapatations of Xerophytes?
19. What is shannon index?
20. Comment on ex-situ conservation.
21. Comment on people biodiversity register.
22. What are the causes and effects of noise pollution?
23. Briefly describe role of mangroves in controlling tsunami.
24. What are the major phases of disaster management?
25. How continental drift explains discontinues distribution of species?
26. Comment on Grassland ecosystem.

(8 × 2 = 16 Marks)

III. Short essay (Answer **any six** questions)

27. Briefly explain major non-renewable natural resources.
28. Discuss the major causes of degradation of natural resources.
29. Explain Carbon and phosphorous cycle.
30. What are the major adaptations of Hydrophytes, Halophytes and parasites?
31. What are the characteristics of desert ecosystem?
32. Discuss the types of biodiversity.
33. What are the hotspots of biodiversity?
34. Explain biosphere reserves with examples.
35. What is montreal protocol? Explain briefly.
36. Compare Chipko movement with silent valley movement.
37. Discuss the nuclear disasters with recent events.
38. What is Endemism? What are the major causes of endemism?

(6 × 4 = 24 Marks)

IV. Essay (Answer **any two** questions)

39. Discuss ecological succession in major ecosystems.
40. What are the major causes, effects and control of Air pollution?
41. Discuss the methods for conservation of natural resources for a sustainable lifestyle.
42. Explain the characters structure and functions of major aquatic ecosystems.

43. What is a threatened taxa? What are the major categories of IUCN? Explain red data book?
44. Discuss major environmental issues and its mitigation.

(2 × 15 = 30 Marks)
