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P – 1511

Reg. No. :

Name :

Second Semester B.Sc. Degree Examination, September 2022

Career Related First Degree Programme under CBCSS

Group 2 (a) Botany and Biotechnology

BB 1241 — ENVIRONMENTAL STUDIES

(2020 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Very short answer type. Maximum **two** sentences. Answer **all** questions.

1. What are Renewable energy resources?
2. Explain food web.
3. What is Ex-situ conservation.
4. Define halophytes.
5. Expand WWF.
6. What is resource ecology?
7. Comment on noise pollution.
8. Define alpha diversity.
9. Give note on social Forestry.
10. What are abiotic components?

(10 × 1 = 10 Marks)

P.T.O.

SECTION – B

Short answer questions. Not exceed in **one** paragraph. Answer any **eight** questions.

11. What are the causes of land degradation?
12. What are sanctuaries?
13. Mention the role of CITES.
14. Explain Marine pollution.
15. Define invasive species.
16. Explain Wildlife Protection Act.
17. What is green technology concept?
18. Explain habitat loss.
19. Comment on forest conservation Act.
20. Describe Grassland ecosystem.
21. What is GIS?
22. Explain the energy flow in an ecosystem.
23. What are biosphere reserves?
24. What are Epiphytes?
25. Define climax community.
26. Give a note on Tsunami.

(8 × 2 = 16 Marks)

SECTION – C

Short essay. Not to exceed **120** words. Answer any **six** questions.

27. What is ecological succession? Explain various stages of ecological succession.
28. What are the anatomical adaptations of hydrophytes?
29. Write a short essay on disaster Management.

30. Comment on Sustainable development goals.
31. What are Shola forests?
32. Give an account on Phytogeographical regions of India.
33. What is In-situ conservation?
34. Discuss on major forests in India.
35. Describe in detail various manmade hazards.
36. Comment on various Aquatic ecosystems.
37. Write on any two Environmental productions laws in India.
38. Explain the adaptations of xerophytes.

(6 × 4 = 24 Marks)

SECTION – D

Long essay. Answer any **two** questions.

39. Write an essay on mineral resources of India.
40. Discuss the methodologies adopted for solid waste management.
41. Discuss the participatory forest management models in Kerala.
42. Explain various types of natural hazards and disaster management options for them.
43. Explain Food chains, web and ecological pyramids.
44. Write an essay on Remote sensing and GIS applications on Environmental problems.

(2 × 15 = 30 Marks)