

(Pages : 4)

M – 1511

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

(2018 Admission)

Time : 3 Hours

Max. Marks : 80

PART – A

- I. Answer **all** questions in a word or sentence, Each question carries **1** mark each.
1. Expand IUCN
 2. Name the Flagship species of Silent Valley.
 3. What is reforestation?
 4. Define natality.
 5. Who coined the term Ecological pyramid?
 6. Give name of one rootless, leafless parasite.
 7. What are renewable resources?

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8. Give one example for an endemic plant species.
9. Define food web.
10. What is meant by nudation?

(10 × 1 = 10 Marks)

PART – B

II. Answer **any eight** of the following in a paragraph. Each question carries **2** marks.

11. What are the different methods used to store water.
12. Define Synecology.
13. What is the significance of Montreal protocol?
14. Explain green house effect.
15. Give an account on ecological pyramids.
16. Explain Red Data Book.
17. What are the adaptations of epiphytes?
18. How the destruction of natural ecosystem affect our livelihood?
19. What are the sources of nuclear hazards?
20. Comment on water pollution and its effect.
21. What are the causes which lead to extinction of species?
22. Write an account of Hotspots of Biodiversity.
23. What is Eutrophication?
24. How the food chain and food web balance the ecosystem?

25. What are parasites, explain with examples?
26. Briefly explain the features of forest ecosystem.

(8 × 2 = 16 Marks)

PART – C

III. Answer **any six** of the following. Each question carries **4** marks each.

27. Write a note on National Parks of Kerala.
28. Write note on Wildlife protection Act and Forest conservation acts.
29. What are the different *ex-situ* conservation strategies?
30. Briefly explain the features of Western Ghats.
31. Write a note on convention on Biological diversity and Chipko movement.
32. What is Biogeochemical cycle and explain Phosphorous cycle.
33. Write a note on the major environmental issues faced by the earth nowadays?
34. What are E-waste? Explain the ill effects of E-waste?
35. Explain UNEP and IPCC and their functions?
36. What are the different causes of degradation of natural resources.
37. Explain different types of biodiversity.
38. What are sustainable developments? Add a note on its significance.

(6 × 4 = 24 Marks)

PART – D

- IV. Answer **any two** questions. Each question carries **15** marks each.
39. Explain the different morphological, anatomical and physiological adaptations of hydrophytes with examples.
 40. Give a brief account on solid waste management.
 41. Explain various vegetation types in India.
 42. Explain the different ecosystems of the world.
 43. What are the reasons for biodiversity loss? Explain the different types of conservation of biodiversity.
 44. Write an essay on ecological succession. Distinguish between ecotone and edge effect.

(2 × 15 = 30 Marks)
