

SEMESTER – V
ENVIRONMENTAL STUDIES AND PHYTOGEOGRAPHY
Course Code: BO1542

I. Write a short note on the following. All questions compulsory. (10 x 01 = 10)

1. Edaphic factor
2. Ecotone
3. Xerophytes
4. Trophic level
5. Acid rain
6. Succession
7. UNEP
8. IPCC
9. WWF
10. Endemic species
11. Gene bank
12. Biotope
13. Stenohaline
14. Rill erosion
15. Gully erosion
16. Eutrophication
17. Contour farming
18. Alley cropping
19. Non-conventional source of energy
20. Mitigation
21. Social Forestry
22. Deforestation
23. Red data book
24. Xerophytes
25. Halophytes
26. Soil Profile
27. Commensalism
28. Pedogenesis
29. Autecology
30. Vivipary
31. Food web
32. Renewable energy

II. Answer any eight

(8 x 2 = 16 marks)

1. What are ecological pyramids?
2. Briefly describe energy flow in an ecosystem?
3. Write about the impacts of landslide?
4. Define Synecology.
5. What is Green house effect?
6. Explain the effects of Soil erosion.

7. Explain the role of decomposers in an ecosystem.
8. Describe components of Ecosystem.
9. What is meant by Vivipery? Where do you find it?
10. Mention Green house gases.
11. What is Global warming? Mention any 2 effects.
12. What is Biomagnification? Mention its effects.
13. Mention types of solid wastes.
14. What is Eutrophication? List its effects.
15. Write 4 adaptations of Halophytes.
16. What is velamen? Mention its significance.
17. What is Pneumatophore? Mention its function.
18. What is ecological Succession? Mention its types.
19. What is bio diversity? Mention its types.
20. What are Endemic species? Give example.
21. What is significance of Biodiversity conservation?
22. Mention any 4 values of Biodiversity.
25. What is IN-SITU and EX -SITU conservation.
26. Mention significance of Social forestry.
27. What is Biodiversity conservation? Mention its types.
28. What are endangered species? Give example.
29. What is Red data book? Mention its significance.
30. Mention biological methods of soil conservation.
31. What is meant by Aforestation and Reforestation?
32. Mention vegetational types of India.
33. What is soil erosion? Mention its effects.
34. Explain MAB.
35. Write about Forest Conservation Act.
36. Enlist the effects of Earth quakes.
37. Explain Hotspots.
38. Write a note on Ramsar Sites.
39. Write short note on Chilka lake.
40. Define community. Write the analytical and synthetic characters use in community structure.
41. Write the steps of ecological succession. What do you mean by climax stage?
42. Define population. Write the characteristics of population.
43. Write the principles and models of energy flow in ecosystem.
44. Define biogeochemical cycle. Write down the nitrogen cycle.
45. Define endemism. Describe the theories of endemism.
46. Write the phytogeographical divisions of India with their local vegetation.
47. Distinguish between grazing and detritus food chain?
48. Distinguish between autogenic and allogenic succession.
49. Write 4 adaptive features from each hydrophytes and xerophytes.
50. What do you mean by continental drift?
51. Write down importance of soil conservation.
52. Write down the consequence of deforestation.

III. Answer any six

(6 x 4 = 24 marks)

1. Explain different components of ecosystem.
2. Write about anatomical, morphological and physiological adaptations of xerophytes.
3. Write an account on the adaptations of mangroves.
4. Explain different stages of succession in a Hydrosere.
5. Define biogeochemical cycle. Explain Carbon cycle with a concept diagram.
6. Describe Nitrogen cycle phosphorous cycle.
7. Explain Forest ecosystem.
8. Explain grassland Ecosystem.
9. Explain Marine Ecosystem.
10. Give an account of adaptations In Hydrophytes.
11. Explain parasitic adaptations.
12. Explain process of Ecological Succession.
13. Give an account of Soil Pollution.
14. Write a note on Solid waste management.
15. What is Acid rain? Write note on its causes, effects control measures.
16. Explain Types of Biodiversity.
17. Give an account of Soil erosion.
18. Describe biological methods of soil conservation.
19. Write Mechanical methods of Soil conservation.
20. Benefits of soil conservation
21. Describe social forestry.
22. Explain soil erosion.
23. Explain mechanical methods of Soil conservation.
24. Explain the process of waste water management.
25. Explain nuclear hazards.
26. Explain the anthropogenic effect on flood and drought.
27. Explain sustainable development. Add a note on its significance.
28. Distinguish between grazing and detritus food chain?
29. Define biome. What type of vegetation is observed in tropical rain forests?
30. Write the principles and models of energy flow in ecosystem.
31. Define population. Write the characteristics of population.
32. Write an account on the non-renewable energy resources and their importance.
33. Describe biotic and abiotic components of a pond ecosystem.
34. Describe the methods used to control soil erosion.
35. Write an essay on Fresh water pollution and its effects and methods to control.

IV. Write essay on any two of the following.

(2 x 15 = 30 marks)

1. Explain different type of pollution.
2. Describe different types of Ecological pyramids with diagrams.
3. Explain concept of Ecosystem with reference to Grassland.
4. Describe process of Hydrosere.
5. Explain succession on barren rock (Xerosere)
6. What is Air pollution? Explain causes, effects and control measures of Air pollution.
7. Give an account of causes, effects and control measures of water pollution.
8. Explain Values of Biodiversity

9. Give an account of IN-SITU and EX-SITU conservation.
10. Give an account on Biodiversity conservation.
11. Explain phytogeographical regions of India.
12. Give an account on natural resources and their conservation.
13. Explain various phases of Disaster management.

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