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Fifth Semester B.Sc. Degree Examination, February 2021

First Degree Programme Under CBCSS

Botany

Core Course

BO 1542 – ENVIRONMENTAL STUDIES AND PHYTOGEOGRAPHY

(2018 Admission Regular)

Time : 3 Hours Max. Marks : 80

SECTION – A

I. Explain each questions in a word or a sentence, each question carries **1** marks each. Answer **all** questions.

1. Endemic species.
2. Pneumatophore.
3. Parasites.
4. Mortality.
5. Ecological niche.
6. Red data book.
7. Sound pollution.
8. Keystone species.

9. Food chain.

10. Pioneer species.

(10 × 1 = 10 Marks)

SECTION – B

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

11. Write a note on WWF.

12. Differentiate Afforestation and Deforestation.

13. Differentiate ecotone and edge effect with example.

14. Explain ozone layer depletion.

15. What is Montreal protocol?

16. Define ecological pyramids.

17. What are the adaptations of Xerophytes?

18. What is Minamata disease?

19. Write on Eutrophication with example.

20. Briefly give an account of desert ecosystems.

21. Define Autecology.

22. Explain Values of Biodiversity.

23. What are Primary and secondary production?

24. Briefly describe the energy flow in an ecosystem.

25. Explain MAB.

26. Causes and effects of earthquakes.

(8 × 2 = 16 Marks)

SECTION – C

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

27. What is air pollution and what are the effects of air pollution in plants and animals?

28. Write a note on the environmental laws in India.

29. What are the factors effecting climate change?

30. What is Ramsar convention? Write brief note on Ramsar sites in Kerala.

31. Explain hot spot in the world and comment on Western Ghats as hot spot.

32. What is Biogeochemical cycle and explain Carbon cycle.

33. Explain sustainable development and what are the significance of sustainable development.

34. Explain the impacts of landslides and comment on the effect of flood occurred in Kerala.

35. What are the climatic and edaphic factors responsible for environmental changes?

36. Explain renewable and non renewable resources with examples.

37. Explain the major features of mangrove ecosystem.

38. Explain solid waste management system.

(6 × 4 = 24 Marks)

SECTION – D

IV. Answer **any two** questions. Each question carries **15** marks each.

39. What is succession and what are the different stages in succession. Explain the succession in xerosere.

40. Explain Pollution by briefly describing all types of pollution you have studied.

41. Explain various phytogeographical zones of India.

42. Explain the different conservation methods with examples. Briefly mention what are the different threats for biodiversity.

43. What are the major environmental issues faced by the earth nowadays and how it affects our livelihood?

44. Explain the biotic and abiotic components of the ecosystem.

(2 × 15 = 30 Marks)
