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2567

Reg. No. : .....

Name : .....

**Fourth Semester B.Sc. Degree Examination, July 2024**

**First Degree Programme under CBCSS**

**Zoology**

**Core Course — IV**

**ZO 1441 : ECOLOGY, HABITAT DESTRUCTION AND DISASTER  
MANAGEMENT**

**(2019 Admission Onwards)**

Time : 3 Hours

Max. Marks : 80

- I. Answer **ALL** questions, each carries 1 mark.
1. What is an ecosystem?
2. What is transition zone of a biosphere reserve?
3. Give any two examples of persistent toxins?
4. What is population?
5. Mention any two natural functions of wetlands.
6. What is a National Park?
7. What is carbon sequestration?
8. What is denitrification?
9. What is Carbon Credit?
10. Define Guild.

**(10 × 1 = 10 Marks)**

**P.T.O.**

II. Answer **any eight** of the following, **each** carries **2** marks.

11. What is global warming?
12. Explain about 'J' shaped growth form.
13. What is Bhopal Tragedy?
14. What is limnology?
15. What do you mean by "climate change"?
16. What is the basic principle of green chemistry?
17. What are the different hierarchical levels of biodiversity?
18. What is Dominance?
19. Define Eutrophication.
20. Which are the two biodiversity hotspots in India?
21. Comment on steppes.
22. What is bio-piracy?

**(8 × 2 = 16 Marks)**

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

23. Explain the adverse effects of sand mining from river channels and flood plain.
24. Explain nitrogen cycle.
25. Impact of cyclone on ecosystem.
26. Write an account on any two environmental movements.
27. Briefly explain about any two Ramsar sites of Kerala.
28. Briefly explain the methods to reduce air pollution.
29. Briefly explain the major problems with Thermal and nuclear power wastes.
30. Differentiate between Beta Diversity and Gamma Diversity.
31. What is the effect of global warming on mangrove forest?

**(6 × 4 = 24 Marks)**

IV. Answer **any two** of the following, **each** carries **15** marks.

32. Write an essay on the various mitigation methods for flood and drought.

33. Explain IUCN categories of threatened species.

34. What is a community? Explain the characteristics of a community.

35. Write an essay on components of the ecosystem.

**(2 × 15 = 30 Marks)**