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Reg. No. : .....

Name : .....

Fourth Semester B.Sc. Degree Examination, July 2023

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 the following questions. (In one or two sentences. Each carries **1** mark).

1. What is ecotone?
2. Comment on WWF
3. What is denitrification?
4. Define biotic potential.
5. Name the first Wildlife Sanctuary in Kerala.
6. Comment on pelagic animals.
7. Define vulnerability.
8. Expand IPCC.
9. Comment on Ashtamudi lake.
10. What is crunch diagram?

(10 × 1 = 10 Marks)

P.T.O.

II. Answer any **eight** of the following (Not to exceed one paragraph. Each carries **2** marks)

11. What is recycle index?

12. Comment on stratosphere

13. What is Shelfrds law of tolerance?

14. Comment on e waste

15. What is biopiracy?

16. What is carbon trading?

17. What are biopesticides?

18. Explain ecological indicators

19. Comment on Chipko Movement

20. What is PBR?

21. What is the impact of genetically modified plants?

22. Comment on green house gases and their impact

(8 × 2 = 16 Marks)

III. Answer any **six** of the following (Not to exceed 120 words. Each carries **4** marks).

23. Explain the biotic factors of an ecosystem and comment on their interrelationships.

24. What are the major terrestrial adaptations of organisms?

25. Give an account on ecological succession.

26. Explain the adverse impacts of various pesticides.

27. What are threatened species?

28. Explain the impact of deforestation.

29. Differentiate between lotic and lentic habitats.

30. Briefly explain the hazards and impacts associated with earthquake.

31. Differentiate between meteorological and hydrological drought.

(6 × 4 = 24 Marks)

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

32. What are limiting factors? Describe the basic concepts.

33. Give an account on the characteristic features of a typical community.

34. Write an essay on green house effect, global warming and its consequences.

35. Give an account on the floods in India and their mitigation measures.

(2 × 15 = 30 Marks)