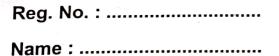
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Fourth Semester B.Sc. Degree Examination, July 2024 First Degree Programme under CBCSS

Zoology

Core Course — IV

ZO 1441 : ECOLOGY, HABITAT DESTRUCTION AND DISASTER MANAGEMENT

(2019 Admission Onwards)

Time: 3 Hours Max. Marks: 80

- 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?
- 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.

 $(10 \times 1 = 10 \text{ Marks})$

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?

 $(8 \times 2 = 16 \text{ Marks})$

- 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?

 $(6 \times 4 = 24 \text{ Marks})$

- 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.

 $(2 \times 15 = 30 \text{ Marks})$