

Reg. No. :

Name :

Fourth Semester B.Sc. Degree Examination, May 2021

First Degree Programme Under CBCSS

Zoology

Core Course

ZO 1441 – ECOLOGY, HABITAT DESTRUCTION AND DISASTER
MANAGEMENT

(2019 Admission Regular)

Time : 3 Hours

Max. Marks : 80

Draw diagrams only if specified in the question.

- I. Answer **all** questions in one or two sentences. Each question carries **1** mark.
1. Resilience.
 2. IUCN.
 3. Chipko Movement.
 4. Kasturi Rangan.
 5. Cyclone.
 6. Bio-pesticides.
 7. Desertification.

8. What is Ecotone?
9. Succession in population.
10. Limiting Factors.

(10 × 1 = 10 Marks)

- II. Answer **any eight** out of **sixteen** questions. Each question carries **2** marks and should not exceed one paragraph.
11. Autotrophs and Phagotrophs.
 12. Role of Age Distribution in a population.
 13. Define Stratification in a Community.
 14. National Parks.
 15. Significance of Ramsar Sites.
 16. Flood and Drought as disruptive factors.
 17. Importance of Bio-fertilizers.
 18. Factors affecting Vulnerability in Disasters.
 19. What is Green Peace?
 20. Give four examples of Biotic Factors.
 21. What is Threatened Species?
 22. Mention about Wetland Reclamation activity.
 23. State the various Sedimentary cycles.

24. Effect of Biotic potential on a population.
25. Human induced Disasters.
26. Effects Thermal Power Station on our Ecosystem.

(8 × 2 = 16 Marks)

III. Answer **any six** out of **Twelve** questions. Each question carries **4** marks.
Each answer should not exceed 120 words.

27. State Shelford's Law of Tolerance.
28. Give the classification of Biosphere.
29. Gases involved in causing Green House Effect.
30. List the various Types of Disasters.
31. Comment on the threat of e-Wastes.
32. Give the principle of Ecological Indicators.
33. Comment on Organic Farming.
34. Give the Anthropogenic influence on the Ecosystem.
35. Mention the basics of Green Chemistry.
36. Give the role of Red Data Book.
37. Comment on Radioisotopes.
38. Differentiate Emigration from Immigration.

(6 × 4 = 24 Marks)

IV. Answer **any two** out of **six** questions. Each question carries **15** marks.
Answer as a short essay.

39. Describe the various Disruptions in Ecosystem.
40. Explain basic types of Biogeochemical Cycles.
41. Write an essay on Cybernetic nature of an Ecosystem.
42. Explain the salient properties of a Population.
43. Elucidate the Causes and Impact of Disasters.
44. Describe Genetically modified plants, and their impact.

(2 × 15 = 30 Marks)