

Reg. No. :

Name :

Fourth Semester B.Sc. Degree Examination, August 2022

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 :

1. What are Saprotrophs?
2. What is recycle index?
3. What is emigration?
4. What is Aestivation?
5. What is edge species?
6. Name any two radioisotopes used in diagnosis of diseases.
7. What is e-waste?
8. Name any two extinct mammals from India.
9. What is NBA movement?
10. What is Green peace?

(10 × 1 = 10 Marks)

P.T.O.

II. Answer **any eight** of the following.

11. What is Lunar periodicity?
12. Write the major causes of Green house effect.
13. State the law of minimum.
14. What is edge effect?
15. What is Biodiversity register?
16. What is Mutualism? Give an example.
17. Write a note on CITES.
18. What is Human induced disaster? Write any two examples.
19. What are endangered animals ? Write any two examples.
20. List out the major impacts of monoclonal plantations.
21. Name any four Ramsar sites in India.
22. Write the major demerits of Genetically engineered plants.
23. List out the major merits of Biopesticides.
24. What is Green chemistry?
25. What are fossorial animals ? Write any two examples.
26. Write a note on Thermal stratification in Pond ecosystem.

(8 × 2 = 16 Marks)

III. Answer **any six** of the following :

27. Write a note on the Bio-fertilizers and its advantages.
28. Briefly illustrate the Phosphorous cycle.
29. Write the physical features and the faunal characters of deep sea ecosystem.

30. Illustrate the S-shaped growth curve.
31. Describe the Ex-situ method of conservation.
32. Briefly describe the Ecological services given by Mangroves.
33. Describe the Impact of Thermal power plants on ecosystem.
34. Write the major causes and impacts of Tsunami.
35. Comment on Madhav Gadgil report.
36. Write a note on the effect of radiations on man.
37. Briefly describe the different types of Grassland biomes.
38. Write a note on Ecological indicators.

(6 × 4 = 24 Marks)

IV. Answer **any two** of the following :

39. Write an essay on Biogeochemical cycles.
40. Describe the various Biotechnological measures in Pollution management.
41. Describe the In-situ methods for Wildlife conservation.
42. Write an essay on the different properties of Population.
43. Write an essay on the different types of Natural Disasters and its management.
44. Describe the process and types of Ecological succession.

(2 × 15 = 30 Marks)