

MODEL PAPER

End Semester Examination Spring- 2025

Program: Diploma (Mining & CSE)
Course: Environmental Science
Course Code: 8DMC101 & 3DMC101
Semester: II

UNIT I

Section A (Each carries 5 marks)
(LOT)

1. Analyse the multidisciplinary nature of Environmental Studies.
2. Discuss the importance of ensuring equity in the use of resources?
3. Discuss the significance of sustainable development in today's world.
4. How are natural resources categorized as renewable and non-renewable? Illustrate with examples.
5. Write notes on Chipko movement.

Section B (Each carries 10 marks)
(Both HOT/LOT)

6. How geothermal energy can be used to generate electricity. What are its advantages and disadvantages?
7. Food security is important, justify. Name the agencies that monitor food safety.
8. Briefly describe the benefit and problems caused by dam?

Section C (Each carries 20 marks)
(HOT)

9. Explain the concept of deforestation and outline the key reasons behind it along with its major consequences.
10. Discuss how individuals can help in the sustainable use and conservation of natural resources.

UNIT II

Section A (Each carries 5 marks)
(LOT)

11. What do you mean by ecological succession? Explain.
12. What is an estuary?
13. Explain lotic and lentic ecosystems.
14. What do you understand by endangered and endemic species?
15. Explain the terms food chain and food web.

Section B (Each carries 10 marks)
(Both HOT/LOT)

16. Systematically represent the structure and function of an ecosystem and draw relationship between different components of an ecosystem.
17. Write briefly on the biotic and abiotic components of an ecosystem.
18. How would you explain ecological pyramid.

Section C (Each carries 20 marks)
(HOT)

19. Enumerate the importance of Biodiversity. What is Red data book? Give its importance.

20. What is IUCN? Give its objectives. Describe Ex-situ conservation and In-situ conservation in detail.

UNIT III

Section A (Each carries 5 marks)

(LOT)

21. What is Ozone layer depletion?
22. What is acid rain?
23. What do you understand by term bio magnification?
24. Define Rainwater harvesting and its types.
25. What are the factor responsible for climate change?

Section B (Each carries 10 marks)

(Both HOT/LOT)

26. Give your view on Resettlement and rehabilitation of people; its problems and concerns.
27. Briefly explain Air prevention and control of pollution Act and Water Prevention and Control of Pollution Act.
28. How you compare COD and BOD.

Section C (Each carries 20 marks)

(HOT)

29. Explain the concept of 'Environmental Ethics', its issues and possible solutions.
30. What are the causes, control measures and impact of water pollution?

UNIT IV

Section A (Each carries 5 marks)

(LOT)

31. List and briefly explain six fundamental human rights.
32. Write a short note on UNICEF. Mention four United Nations bodies or agencies involved in the protection of human rights.
33. Write different programme run for family welfare by central government.
34. Briefly write functions of UNSECO and UNICEF.
35. Write a note on WHO.

Section B (Each carries 10 marks)

(Both HOT/LOT)

36. Discuss the Fundamental Rights guaranteed in our Indian Constitution.
37. Provide a brief overview of various UN agencies dedicated to human rights and humanitarian missions.
38. How can we use information and technology in the field environment? [CO4][Create]

Section C (Each carries 20 marks)

(HOT)

39. Discuss the constitutional provisions for Scheduled Castes, Scheduled Tribes and other marginalized groups.
40. Write explanatory notes on (i) Family welfare programme (ii) Rights for women and Children in India.

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Disclaimer: - This is a Model Paper. The Question in the End term examination may differ from the Model Paper. This Model paper is meant for practice only.