

PRACTICE SET
End Semester Examination, Spring- 2026

Program: B. Tech
Semester: II
Course: Environmental Science
Course Code: 8MC101

Course Outcomes	Description
CO1	Articulate the interconnected and interdisciplinary nature of environmental studies; an integrative approach to environmental issues with a focus on sustainability
CO2	Predict the consequences of human actions on the web of life, global economy and quality of human life, develop critical thinking for shaping strategies (scientific, social, economic and legal) for environmental protection and conservation of biodiversity, social equity and sustainable development
CO3	Acquire values and attitudes towards understanding complex environmental-economic social challenges, and participating actively in solving current environmental problems and preventing the future ones
CO4	Reflect critically on their roles, responsibilities, and identities as citizens, consumers and environmental actors in a complex, interconnected world, adopt sustainability as a practice in life, society and industry.

UNIT I

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

1. Explain the concept of deforestation and outline the key reasons behind it along with its major consequences. [CO1][Apply]
2. How geothermal energy can be used to generate electricity. What are its advantages and disadvantages? [CO1] [Apply]
3. Discuss the environmental effects of extracting and using mineral resources. [CO1]
4. Briefly describe the classifications and usages of energy sources.
5. Briefly describe the benefit and problems caused by dam? [CO1] [Remember]

Section C (Each carries 20 marks)
(HOT)

6. Explain the concept of Hydrological cycle and describe its importance in details. [CO1][Apply]
7. Discuss how individuals can help in the sustainable use and conservation of natural resources. [CO1][Apply]

UNIT II

Section B (Each carries 10 marks)

(Both HOT/LOT)

8. Discuss the concept and structure of Ecosystem. Draw relationship between different components of an ecosystem. [CO2][Analyse]
9. What do you mean by food chain? Discuss its types and explain them properly. CO2][Understanding]
10. What do you mean by ecological succession? Explain it in details [CO2][Understanding]
11. How would you explain ecological pyramid & describe its importance. [CO2][Analyse]
12. Coin the term IUCN. Describe the values of Biodiversity in details. CO2][Understanding]
13. Discuss the biographical and floristic regions of India. CO2][Understanding]

Section C (Each carries 20 marks)

(HOT)

14. Enumerate the importance of Biodiversity. Discuss it at Global, National and local level. [CO2][Apply]

UNIT III

Section B (Each carries 10 marks)

(Both HOT/LOT)

15. Give your view on Resettlement and rehabilitation of people; its problems and concerns. [CO3][Analyse]
16. Describe the biochemical effects of some important air pollutants in details. [CO3][Understanding]
17. Discuss the effects and control of water pollution. [CO3][Understanding]
18. Briefly explain Air prevention and control of pollution Act and Water Prevention and Control of Pollution Act. [CO3][Understanding]
19. Write an essay on “radioactive pollution”. [CO3][Understanding]
20. Write an essay on disaster management. [CO3][Understanding]
21. What do you mean by global warming and the way to measure it. [CO3][Understanding]

Section C (Each carries 20 marks)

(HOT)

22. Explain the concept of ‘Environmental Ethics’, its issues and possible solutions. [CO3][Apply]
23. Can you tell the causes, control measures and impact of marine pollution? [CO3][Apply]

UNIT IV

Section B (Each carries 10 marks)

(Both HOT/LOT)

24. Discuss the difference in between population growth and population explosion? Discuss the scenario over it. [CO4][Understanding]
25. Discuss the Fundamental Rights guaranteed in our Indian Constitution. [CO4][Apply]
26. Provide a brief overview of various UN agencies dedicated to human rights and humanitarian missions. [CO4][Analyse]
27. How can we use information and technology in the field environment? [CO4][Create]

Section C (Each carries 20 marks)

(HOT)

28. Discuss & state the constitutional provisions for Scheduled Castes, Scheduled Tribes and other marginalized groups. [CO4][Apply]
29. Write explanatory notes on (i) Family welfare programme(ii) Rights for women and Children in India. [CO4][Apply]

Summary Sheet:

CO Wise

CO	Q. No	Marks
CO1	1,2,3,4,5,6,7,8,9,10	95
CO2	11,12,13,14,15,16,17,18,19,20	95
CO3	21,22,23,24,25,26,27,28,29,30	95
CO4	31,32,33,34,35,36,37,38,39,40	95
Total		380

Unit Wise

Unit	Q. No	Marks
Unit 1	1,2,4,5,7,8,9,10	95
Unit 2	11,12,13,14,15,16,17,18,19,20	95
Unit 3	21,22,23,24,25,26,27,28,29,30	95
Unit 4	31,32,33,34,35,36,37,38,39,40	95
Total		380

Blooms Taxonomy Level (BTL) Wise

BTL	Q. No	Marks
LOT	1,2,3,4,5,8,11,12,13,14,15,17,21 22,23,24,25,31,32,33,34,35,	120
HOT	6,7,9,10,16,18,19,20,26,27,28,29,30,36,37,38 39,40	260
Total		380

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Disclaimer: - This is a Practice set. The Question in the End term examination will differ from the Practice set. This Practice set is meant for practice only.