

PRACTICE SET

End Semester Examination, December 2025

Program: Diploma

Semester: V

Subject Code: 8D.332

Subject: ENVIRONMENTAL ASPECTS OF MINING

UNIT I

Section A (Each carries 5 marks)

1. Describe the expected activities in mining complexes in India to avoid pollution, in general.
2. Explain the term environment & its function.
3. Describe the impacts on land due to various activities in mining complexes.
4. Explain the impacts of mining on atmosphere.

Section B (Each carries 10 marks)

5. Describe subsidence. Mention the problems caused in mining areas due to subsidence.
6. Define ecosystem. Describe the structure & functional aspects of ecosystem.
7. Explain the function of ecosystem. Describe the biotic component & its types.
8. Describe the impacts of mining on water regime and societal environment

Section C (Each carries 20 marks)

9. Describe the impacts of mining on ecological environment & impacts on Atmosphere.
10. Explain the impacts of mining on societal environment.

UNIT II

Section A (Each carries 5 marks)

11. Explain the harmful effect of air pollution on human beings and environment.
12. List out the activities in underground mines causing noise pollution and possible mitigative measures.
13. Describe the harmful effect of air pollution on human beings and environment.
14. Mention the surface water sources and underground water sources in mining areas.

Section B (Each carries 10 marks)

15. Explain the different activities in underground mines causing air pollution and preventive measures to control air pollution.
16. Explain the different activities causing air pollution in opencast mining.
17. What do you mean by water pollution? Mention the sources of water pollution both natural and manmade in water bodies.

18. Explain the preventive measures to control the air pollution in opencast mines.
19. Define Air pollution. State the different forms of air pollutants. Describe the classification of air pollutants.
20. Describe in brief the sources of water pollution due to
 - (a) Rainfall
 - (b) Surface run off
 - (c) Domestic ActivitiesAnd preventive mitigative measures to control water pollution.

Section C (Each carries 20 marks)

21. (a) Explain the sources of water pollution due to underground mining and preventive/ mitigative measures to control water pollution.
(b) Explain the sources of water pollution due to opencast mining and preventive/ mitigative measures to control water pollution.
22. Describe the activities causing air pollution in mining complex other than those in opencast mining/underground mining/coal washeries and the measures to control them.

UNIT III

Section A (Each carries 5 marks)

23. Describe the objective of reclamation in mining areas.
24. Explain the necessity of reclamation in opencast mine area.

Section B (Each carries 10 marks)

25. Explain land degradation caused by various mining activities such as opencast mining, underground mining.
26. Explain reclamation. Describe the various method of reclamation adopted in opencast mine area.

Section C (Each carries 20 marks)

27. (a) Explain the physical reclamation in opencast mining areas.
(b) Explain in brief the points which need adequate attention during reclamation of open pit.
28. Describe land degradation due to mining? Show with sketch the land degradation cycle due to mining and related activities.

UNIT IV

Section A (Each carries 5 marks)

29. Explain the hazardous waste. What are the processes of management of hazardous waste?
30. Explain resource depletion.
31. Explain resource management.

Section B (Each carries 10 marks)

32. Explain the Environmental impact of coal industry.

33. What are the important control measures for mitigating the environmental problems caused by the coal industry.
34. Describe exploitation of natural resources.
35. Explain in brief: - (a) Over drafting (b) Overexploitation.
36. Discuss how overexploitation of natural resources leads to ecological imbalance. Illustrate your answer with examples from different sectors such as mining, agriculture, and deforestation.
37. Explain the significance of resource management in achieving sustainable development. Discuss the principles and strategies involved in effective resource management.
38. Evaluate the role of industrialization and population growth in accelerating the rate of resource depletion. How can sustainable development strategies help address this issue?

Section C (Each carries 20 marks)

39. Analyze the impact of resource depletion on global geopolitical dynamics. How do scarcity and competition for resources influence international relations?
40. Compare renewable and non-renewable resources in the context of depletion. Why is it important to shift towards renewable alternatives? Provide examples to support.

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