

End Semester /Reappear (Semester VI) Examination May 2025

Programme: Diploma (MiE)
Course: Environmental Aspects of Mining
Course Code: 8D.353
Enrolment no. _____

Full Marks: 70
Time: 3 Hrs.

Section I

- 1. Short Answer type questions. Answer any four. 4 x 5 = 20**
- Describe the impacts on land due to various activities in mining complexes.
 - Explain the meaning of hazardous waste. What are the processes of management of hazardous waste?
 - Describe the harmful effect of air pollution on human beings and environment.
 - Describe the objective of reclamation in mining areas.
 - List out the activities in underground mines causing noise pollution and possible mitigative measures.
 - Discuss the environmental protection measures undertaken in mining complexes across India to prevent pollution, focusing on waste management.

Section II

- Long Answer type questions. Answer any three. 3 x 10 = 30**
- Analyze the role of resource management in fostering sustainable development, emphasizing its importance in balancing economic growth, environmental conservation, and social well-being. Additionally, explore key principles and strategic approaches for efficient resource utilization and long-term sustainability.
 - Explain land degradation caused by various mining activities such as opencast mining, underground mining.
 - Define Air pollution. State the different forms of air pollutants. Describe the classification of air pollutants.
 - Describe the impacts of mining on water regime and societal environment.
 - Show with sketch the land degradation cycle due to mining and related activities.

Section III

- Application based questions. Answer any one. 1 x 20 = 20**
- Analyze the impact of resource depletion on global geopolitical dynamics. How do scarcity and competition for resources influence international relations?
 - Identify the sources of air pollution in mining complexes beyond opencast mining, underground mining, and coal washeries. Additionally, evaluate effective control measures to mitigate their environmental impact.
 - Describe the impacts of mining on ecological environment & impacts on Atmosphere.
