

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VI EXAMINATION – WINTER 2025

Subject Code:3162213

Date:19-11-2025

Subject Name:Environment Management

Time:02:30 PM TO 05:00 PM

Total Marks:70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) Write the importance of sustainable development of mining industries.	03
	(b) Enumerate various Environmental impacts of mining and associated activities.	04
	(c) Explain the preventive and controlling measure against acid mine drainage.	07
Q.2	(a) Enlist the important parameters considered for testing water pollution.	03
	(b) Describe types of land degradation due to mining.	04
	(c) Suggest some steps for physical and biological reclamation of land.	07
	OR	
	(c) Suggest some important factors should be considered for developing an EIA report for a mining industry.	07
Q.3	(a) Differentiate between surface water and ground water.	03
	(b) Discuss the role of organisations in environmental administration.	04
	(c) Explain the concept and principle of corporate social responsibility.	07
	OR	
Q.3	(a) Differentiate between top soil and sub soil.	03
	(b) Describe the characteristics of SPM 2.5 and SPM 10 size dust particle.	04
	(c) Explain the steps involved in top soil management planning.	07
Q.4	(a) Describe the sources of noise pollution.	03
	(b) Describe the sources of water pollution in mining areas.	04
	(c) Explain the Concepts and principles of mine closure planning.	07
	OR	
Q.4	(a) Discuss the basic concepts of land acquisition and revenue.	03
	(b) Describe the methods to reduce blast vibrations.	04
	(c) Explain the causes responsible for acid mine drainage in mines.	07
Q.5	(a) Write the concept behind rehabilitation of land.	03
	(b) Describe various sources of vibrations in mines.	04
	(c) Explain the importance and objective of reclamation, support your answer with some best examples of reclamation.	07
	OR	
Q.5	(a) Describe atmospheric composition of air.	03
	(b) Describe the importance of Meteorology study.	04
	(c) Explain the hydrological cycle and support your answer with a suitable sketch.	07
