Enrolment No./Seat No_____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VI EXAMINATION – SUMMER 2025

Subject Code: 3162213 Date: 26-05-2025

Subject Name: Environment Management

Time: 10:30 AM TO 01:00 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)**	Discuss the basic concepts and principles of environment management.	**03**
	(b)	Explain the physical and biological reclamation.	**04**
	(c)	Explain the environmental impacts of mining and associated activities.	**07**
Q.2	**(a)**	Discuss the land degradation due to mining activities.	**03**
	(b)	Describe the sources of vibration in mining.	**04**
	(c)	Explain the different techniques for control of noise pollution.	**07**
		OR	
	(c)	Explain the preventive and control measures for water pollution.	**07**
Q.3	**(a)**	Discuss the important water quality parameters.	**03**
	(b)	Describe the sources of water pollution in mining areas.	**04**
	(c)	Explain the principle and environmental impacts of mine closure.	**07**
		OR	
Q.3	**(a)**	Discuss the role of different kinds of organisations in environmental administration.	**03**
	(b)	Describe the sources of noise pollution.	**04**
	(c)	Explain the necessity and objective of reclamation.	**07**
Q.4	**(a)**	Define the term Ecology. Explain its principles and basic concepts.	**03**
	(b)	Discuss the structural and functional aspects of the ecosystem.	**04**
	(c)	Explain the sources of air pollution.	**07**
		OR	
Q.4	**(a)**	Define air pollution. Discuss the classification of air pollutants.	**03**
	(b)	Describe the atmospheric composition and meteorology of air pollution.	**04**
	(c)	Explain the preventive measure to minimize air pollution in mining industries.	**07**
Q.5	**(a)**	Discuss why one should be concerned about air pollution.	**03**
	(b)	Describe the basic concepts and principles of corporate social responsibility.	**04**
	(c)	Explain the EIA of mining projects.	**07**
		OR	
Q.5	**(a)**	Discuss the basic concepts of land acquisition and revenue.	**03**
	(b)	Describe the various stages for process of EIA.	**04**
	(c)	Explain the different methods to reduce blast vibrations.	**07**

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