

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2018****Subject Code:2162205****Date:27/11/2018****Subject Name:Mine Surface Environment****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.

		MARKS	
Q.1	(a) Discuss the effect of acid mine drainage on surrounding mine environment.	03	
	(b) Describe the formation of Acid Mine Drainage.	04	
	(c) What is demography? How mine environment affect the human pollution?	07	
Q.2	(a) Discuss the impacts of mining on ground water table.	03	
	(b) Explain the terms ecology and environment.	04	
	(c) Explain the direct and indirect economic impacts of mining activities.	07	
OR			
Q.3	(c) Discuss the impact of mining on surface water.	07	
	(a) Write a short note on landscape analysis.	03	
	(b) Write a note on Dust monitoring.	04	
Q.3	(c) Illustrate the different controlling methods of generation and dispersion of air dust particle.	07	
	OR		
	Q.3	(a) Write the social impacts of mining activities.	03
(b) How airborne dust is generated and dispersed in mining?		04	
(c) Explain harmful physiological effects of airborne repairable dust.		07	
Q.4	(a) Discuss the impact of mining on sub-surface water.	03	
	(b) Explain natural drainage pattern.	04	
	(c) Write a note on the impacts of mining activities on land use pattern.	07	
OR			
Q.4	(a) Write a short note on land use pattern.	03	
	(b) Explain treatment and control of Acid Mine Drainage.	04	
	(c) Write a note on visual impacts of mining activities on land.	07	
Q.5	(a) Explain the degradation of soil quality due to mining activity.	03	
	(b) Discuss the effect of mining on fauna.	04	
	(c) Explain the types of noise pollution created in mining.	07	
OR			
Q.5	(a) List the gaseous and particulate air pollution sources. Explain any one.	03	
	(b) Discuss the effect of mining on flora.	04	
	(c) Explain the major environmental issues in mining industry.	07	
