

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VI(NEW) – EXAMINATION – SUMMER 2019****Subject Code:2162205****Date:16/05/2019****Subject Name:Mine Surface Environment****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.

		<b>MARKS</b>
<b>Q.1</b>	(a) Write a note on Dust monitoring.	<b>03</b>
	(b) Describe the formation of Acid Mine Drainage.	<b>04</b>
	(c) Write a note on Stabilizing the debris dumps in this mining operation.	<b>07</b>
<b>Q.2</b>	(a) Explain natural drainage pattern.	<b>03</b>
	(b) Discuss the impact of mining on surface water.	<b>04</b>
	(c) What is demography? How mine environment affect the human pollution?	<b>07</b>
<b>OR</b>		
	(c) Illustrate the different controlling methods of generation and dispersion of air dust particle.	<b>07</b>
<b>Q.3</b>	(a) Discuss the effect of mining on fauna.	<b>03</b>
	(b) How land environment can be affected by mining?	<b>04</b>
	(c) Explain the major environmental issues in mining industry.	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(a) Discuss the effect of mining on flora.	<b>03</b>
	(b) Describe the parameters of environment in relation to mining.	<b>04</b>
	(c) Explain harmful physiological effects of airborne repairable dust.	<b>07</b>
<b>Q.4</b>	(a) Discuss the effect of acid mine drainage on surrounding mine environment.	<b>03</b>
	(b) What are the factors responsible for degradation of soil?	<b>04</b>
	(c) Explain the direct and indirect socio-economic impacts of mining.	<b>07</b>
<b>OR</b>		
<b>Q.4</b>	(a) What are the impacts of mining on ground water table?	<b>03</b>
	(b) Write note on Fly Rock Issues in Mining.	<b>04</b>
	(c) Describe different steps in Environment Impact Assessment.	<b>07</b>
<b>Q.5</b>	(a) Write note on how dust dispersed in mining.	<b>03</b>
	(b) How soil quality degraded due to mining?	<b>04</b>
	(c) Write note on treatment and control of acid mine drainage.	<b>07</b>
<b>OR</b>		
<b>Q.5</b>	(a) Write note on effects of blasting.	<b>03</b>
	(b) Explain the various land reclamation method.	<b>04</b>
	(c) What are the impacts of ecological environment?	<b>07</b>

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