

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-VI • EXAMINATION – SUMMER • 2015**

**Subject code:162205**

**Date: 12/05/2015**

**Subject Name: Mine Surface Environment**

**Time: 10.30am-01.00pm**

**Total Marks: 70**

**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) What are the environmental issues if mineral industry? **07**  
(b) What are the economic parameters of environmental degradation? **07**

- Q.2** (a) What is water drainage pattern? How the effects of mining to drainage pattern? **07**  
(b) What is effect of mining to demographic and socio cultural environment? **07**

**OR**

- (b) What is AMD? Which are the acid mine drainage generating minerals and what is its impact on environment? **07**

- Q.3** (a) What are the sources of air pollution? How it can be monitored and controlled? **07**  
(b) How water pollution can be controlled from mining activities? How dust is generated from mining? How it can be controlled? **07**

**OR**

- Q.3** (a) Write a brief description on effects of mining on forest cover? **07**  
(b) What are the steps in environment impact assessment? **07**

- Q.4** (a) What are the effects of mining on water table? **07**  
(b) How noise pollution is created by mining? How it affects human being? **07**

**OR**

- Q.4** (a) What are the effects of mines blasting? **07**  
(b) What landscape planning is required in mining?. **07**

- Q.5** Write Note on Any 2:- **14**  
1. Stabilizing the debris dumps in this mining operation.  
2. Anthropogenic changes in ecosystem.  
3. Mining effects on soil degradation.  
4. Health hazards due to mining.

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