

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI • EXAMINATION – WINTER • 2014****Subject Code: 162205****Date: 03-12-2014****Subject Name: Mine Surface Environment****Time: 02:30 pm - 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.

- Q.1** (a) Explain the major environmental issues in mining industry. **07**
(b) What are the direct and indirect impacts impact of mining on Scocio-economic environment? **07**
- Q.2** (a) What is AMD? What are minerals responsible for generating AMD? **07**
(b) What precautions are to be taken care for natural drainage pattern in mining? **07**
- OR**
- (b) Explain the parameters to measure the Socio-Economic environment of mining surroundings? **07**
- Q.3** (a) What are the impacts of mining on surface and sub-surface waters? **07**
(b) Explain the problems of AMD with respect to Indian mining scenario? **07**
- OR**
- Q.3** (a) How is dust generated and dispersed in mining. **07**
(b) What type of gaseous and air pollution is created in mining operation? **07**
- Q.4** (a) What are the impacts of mining on forests? **07**
(b) What is the type of noise pollution created in mining and how it is controlled? **07**
- OR**
- Q.4** (a) Explain the blasting hazards with respect to environment. **07**
(b) How soil quality degraded due to mining? **07**
- Q.5** Write note on any two : - **14**
1. Landscape planning in mining.
 2. Fly rock issues in mining.
 3. Ecological effects of mining on fauna.
 4. Effects of mining on visual landscape.
