

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VII • EXAMINATION – WINTER 2013****Subject Code: 172203****Date: 07-12-2013****Subject Name: Environment Management in Mine****Time: 10:30 TO 01:00****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 different stages of mining and its environmental effects? **07**  
(b) What are the characteristics of waste rock mill tailing? How is its disposal planned? **07**
- Q.2** (a) What is Acid mine drainage? What the active methods of its treatment. **07**  
(b) Why Ecological restoration of mining is important? How is it planned? **07**
- OR**
- (b) Write a note on restoration techniques of mining. **07**
- Q.3** (a) What are the potential environmental impacts of mine waste disposal? **07**  
(b) What are the principles of post mining land use? **07**
- OR**
- Q.3** (a) What are different post mining land uses? How post mining land use is selected? **07**  
(b) What are the risks of mine closure? **07**
- Q.4** (a) What are the reasons for mine closure? What are its objective? **07**  
(b) What are the socio-economic impact of mine closure? **07**
- OR**
- Q.4** (a) How is environment monitoring and management done in mining? **07**  
(b) What are the relevant environmental provisions done in Government environmental act for mining? **07**
- Q.5** **Write note on any 2 :-** **14**
1. Mine closure design.
  2. Wetland for AMD.
  3. Public participation in Environment planning.
  4. Environmental Clearances required for mining.

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