

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VII • EXAMINATION – WINTER • 2014

Subject code: 172203

Date: 04-12-2014

Subject Name: Environment Management in Mines

Time: 10:30 am - 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.

Q.1 (a) Draw a schematic environmental discharge model of mining project. Explain Environmental impact of mining projects on its various stages **07**

(b) How can the damage to the environment be contained within acceptable limits and compensated for. Explain it. **07**

Q.2 (a) What are the potential environmental impacts of waste rocks? Explain it. **07**

(b) What is tailing disposal? Explain Waste rock characterization with proper example. **07**

OR

(b) Explain Acid Mine Drainage. **07**

Q.3 (a) Explain the active treatment technology used for acid mine drainage & its issues. **07**

(b) Explain Ecological Restoration with flow chart. **07**

Q.3 (a) What is natural restoration? Elaborate restoration planning, goal & objectives? **07**

(b) Explain the technologies used for acid mine drainage for wetlands. **07**

Q.4 (a) What is Sustainable Development and how this approach is applicable in mining projects. **07**

(b) Describe the basic requirement during mine closure. **07**

OR

Q.4 (a) Explain the Management Principles for Post Mining Land use. **07**

(b) State the objectives of mine closure. **07**

Q.5 (a) Explain Environment Management Plan for mines. **07**

(b) Discuss briefly Environment Impact Assessment (EIA) study. **07**

OR

Q.5 (a) What is the procedure for getting Environment Clearance for mining project? State the conditions as stipulated in Environment Protection Act Notification 1986. **07**

(b) Discuss Environment Monitoring and Management. **07**
