

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VII(NEW) EXAMINATION – SUMMER 2019****Subject Code:2172203****Date:16/05/2019****Subject Name:Environment Management In Mine****Time:02:30 PM TO 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) Write a note on Closure of mine entries. **03**  
(b) Write a note on Post mining land use. **04**  
(c) Write a note on active treatment of acid mine drainage. **07**
- Q.2** (a) Write a note on Objectives of Restoration. **03**  
(b) What are the potential environmental impacts of waste rock? **04**  
(c) Write a note on passive treatment of acid mine drainage. **07**
- OR**
- Q.3** (c) Explain the risk and socio economic response of mine closure. **07**  
(a) Describe the function of EMP **03**  
(b) What is the important of Reclamation? **04**  
(c) What is acid mine drainage? How it is affect the environment? **07**
- OR**
- Q.3** (a) Write a short note on land pollution. **03**  
(b) What are the mining and environment concerns? **04**  
(c) Discuss about Environment Impact Assessment. **07**
- Q.4** (a) What technology is used for AMD? **03**  
(b) How ecological restoration of mining is planned? **04**  
(c) Explain the State the main points of Environment Protection Act 1986. **07**
- OR**
- Q.4** (a) How post mining land use is designed? **03**  
(b) Describe the basic features of Environment Management Plan. **04**  
(c) Describe the various potential environment impact of waste rock mill tailing disposal. **07**
- Q.5** (a) Explain waste rock characterization. **03**  
(b) What is noise? Explain noise control measures. **04**  
(c) What is importance of data for environment management in mines? **07**
- OR**
- Q.5** (a) How acid mine drainage is occurred in mines? **03**  
(b) What is sustainable development and how this approach is applicable in mining projects. **04**  
(c) What is EMM? Explain various precautions in environment condition in open cast mine. **07**

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