Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) - EXAMINATION - SUMMER 2017

Subject Code: 2172203 Date: 04/05/2017 **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. Environmental impact of Mining Projects on its various stages. 0.1 (a) 07 Write a short note on Acid Mine Drainage. 07 **(b)** Explain the active and passive treatment of acid mine drainage. 07 0.2 (a) What is waste Rock Mill Tailing disposal? Which factors should be considered during 07 **(b)** the selection of site for waste rock disposal? **(b)** Describe the various potential environment impact of waste rock mill tailing 07 disposal. What is the basic difference between the ecological restoration and natural 0.3 (a) 07 restoration? Write a short note on any one. Explain the risk and socio economic response of mine closure. 07 OR **Q.3** Write a short note on the following. **07** (a) (i) Objectives of Restoration. (ii) Restoration Planning. **(b)** Explain the objectives of mine closure. 07 07 **Q.4** What is the difference between the reclamation, restoration & rehabilitation? Describe the various stages of open cast mining and its effect on the **(b)** 07 environment. OR (a) Prepare and design an Environment management plan for an open cast mine. **07 Q.4** Describe the basic features of Environment Management Plan. **07 Q.5** (a) Explain the various provisions of Environmental Protection Act, 1986. **07** What are the causes of noise pollution on surrounding environment? What 07 **(b)** measures you suggest to minimise the noise pollution in the mines. OR Describe the various management principles of post mining land use. 07 **Q.5** (a) Write a short note on the following. **07 (b)** (i) Closure of mine entries. (ii) Environment Impact Assessment and Prediction.
