

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (OLD) - EXAMINATION – SUMMER 2017****Subject Code: 162205****Date: 01/05/2017****Subject Name: Mine Surface Environment****Time: 10:30 AM to 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) What is the basic difference between ecology and environment? **07**
(b) Describe the environmental impact of mining industry. **07**
- Q.2** (a) Write a short note on socio – economic impact of mining industry. **07**
(b) Explain land use pattern and land scape planning. **07**
- OR**
- (b) Write a short note on the degradation of soil due to mining project. **07**
- Q.3** (a) What do you mean by reclamation? Describe the various methods of it. **07**
(b) Describe the various impact of mining on surface water. **07**
- OR**
- Q.3** (a) Differentiate the restoration and rehabilitation. **07**
(b) Describe the environmental impacts of mining on the flora and fauna. **07**
- Q.4** (a) Which preventive measures should be taken for reducing air pollution? **07**
(b) Write a short note on acid mine drainage. **07**
- OR**
- Q.4** (a) Write a short note on monitoring and control of air pollution. **07**
(b) Explain the impact of acid mine drainage on environment. **07**
- Q.5** (a) Write a short note on noise pollution. Also provide the permissible limits of noise level in dB. **07**
(b) Describe the DGMS approved permissible standards for ground vibration. **07**
- OR**
- Q.5** (a) Which controlled blasting method should be used for reducing a fly rock? Explain in details. **07**
(b) Write a short note on preventive measures for reducing ground vibration and noise pollution. **07**
