

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER – VI (NEW).EXAMINATION – WINTER 2016

Subject Code: 2162205**Date: 25/10/2016****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) Describe environmental issues in mineral industries. **07**
(b) Explain land use pattern. Describe the assessment of impact of land use. **07**
- Q.2** (a) Define land degradation. Explain different land degradation methods? **07**
(b) Explain the various parameters for socio-economic environment. **07**
- OR**
- (b) Describe different direct and indirect economic impacts. **07**
- Q.3** (a) Give the different measures for prevention, control and abatement of air pollution. **07**
(b) Explain landscape planning in brief. **07**
- OR**
- Q.3** (a) Describe landscape analysis and add note on degradation of soil quality. **07**
(b) Describe effects of mining on flora and fauna in brief. **07**
- Q.4** (a) Explain natural drainage pattern. **07**
(b) What are the impacts of open cast mining methods on environment? **07**
- OR**
- Q.4** (a) Explain Acid Mine Drainage in brief. **07**
(b) Describe generation and description of Air-borne repairable dust. **07**
- Q.5** (a) Write note on gaseous and particulate air pollution sources. **07**
(b) Explain different impacts of mining activity on surface water and sub-surface water. **07**
- OR**
- Q.5** (a) Explain measurement and control of air pollution sources. **07**
(b) Write note on treatment and control of AMD. **07**
