

GUJARAT TECHNOLOGICAL UNIVERSITY
B. E. - SEMESTER – III • EXAMINATION – WINTER 2012

Subject code: 132201**Date: 04-01-2013****Subject Name: Introduction to Mining****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) Mineral resource of Gujarat. **07**
(b) Compare Surface mining with Underground mining. **07**
- Q.2** (a) Explain Stages in the Life of Mine. **07**
(b) Write short note on safety aspects of mining. **07**
OR
(b) Discuss various types of Drills using in Mining. **07**
- Q.3** (a) Explain the term Mine, Mining, Mining Engineering, Mineral, Rock, Ore, Gangue, Waste. **07**
(b) Explain Socio-Economic impacts of mining industries. **07**
OR
- Q.3** (a) Explain in brief various methods of Exploration. **07**
(b) Write short note on Core recovery. **07**
- Q.4** (a) Explain explosive and its properties. **07**
(b) Discuss about modern explosives. **07**
OR
- Q.4** (a) Explain history of Mining. **07**
Q.4 (b) Mineral resource of India. **07**
- Q.5** (a) Explain basic loading equipment in surface mining. **07**
(b) Explain basic loading equipment in Underground mining. **07**
OR
- Q.5** (a) Explain Transportation in Surface Mining. **07**
(b) Explain direct and indirect initiation. **07**
