

**GUJARAT TECHNOLOGICAL UNIVERSITY****B.E. Sem-III(Mining Engg) Examination December 2009****Subject code: 132201****Subject Name: Introduction To Mining****Date: 21 / 12 / 2009****Time: 11.00 am – 1.30 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) Compare Surface mining with underground mining. **07**  
(b) Write importance of mining industries. **07**
- Q.2** (a) Explain various effects of mining industry on surface environment. **07**  
(b) Compare Board & Pillar method with Long wall method. **07**
- OR**
- (b) List out various metalliferous mining methods. **07**
- Q.3** (a) Explain in brief various steps involved in surface mining method. **07**  
(b) Write short note on Socio-Economic impacts of mining industries. **07**
- OR**
- Q.3** (a) Explain in brief various methods of Exploration. **07**  
(b) Compare percussive drilling with rotary drilling. **07**
- Q.4** (a) Explain the methods of flushing the bore holes. **07**  
(b) Write short note on Mine development. **07**
- OR**
- Q.4** (a) Compare low explosives with high explosives. **07**  
(b) List out various types of drill bits used with their applicability conditions. **07**
- Q.5** (a) Write various properties of a good explosive. **07**  
(b) Explain in brief direct and indirect initiation system of blasting. **07**
- OR**
- Q.5** (a) Write the safety measures taken for underground blasting. **07**  
(b) List out various loading and transportation equipments used in surface mining. **07**

\*\*\*\*\*