

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE SEM-III Examination-Dec.-2011**

**Subject code: 132201****Date: 15/12/2011****Subject Name: Introduction to Mining****Time: 2.30 pm -5.00 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) Write a short note on Percussive Drilling. **07**  
(b) Write a short note on Low & High explosives. **07**
- Q.2** (a) Write the safety measures taken in Underground blasting. **07**  
(b) Write a short note on Rotary drilling. **07**  
**OR**  
(b) Give the properties of Core-recovery & Drilling mud. **07**
- Q.3** (a) Explain : Surface mining and Underground mining. **07**  
(b) Explain Socio-Economic impact of mining industry. **07**  
**OR**
- Q.3** (a) Give the Properties of Explosives. **07**  
(b) Write a short note on Mine –development. **07**
- Q.4** (a) Give the types of drills using in Mines. What is Rope drilling. **07**  
(b) Explain Solid blasting & give its advantages. **07**  
**OR**
- Q.4** (a) List out various Mettalliferrous mining methods. **07**  
(b) Write importance of Mining industries. **07**
- Q.5** (a) Which types of basic loading equipments used in Opencast mines. **07**  
(b) Write short note on initiation systemsin Explosives & blasting. **07**  
**OR**
- Q.5** (a) Give the metal mining terminology. **07**  
(b) Write a short note on Directional drilling & deflection of bore hole. **07**

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