

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER- III EXAMINATION – SUMMER 2015****Subject Code:132201****Date:09/06/2015****Subject Name: Introduction to Mining****Time: 02.30pm-05.00pm****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) Explain Socio-Economic impact of mining industry. **07**  
(b) Effect of mining on surface environment. **07**
- Q.2** (a) Mineral resource of India. **07**  
(b) Compare Surface mining with underground mining. **07**
- OR**
- (b) Explain types of explosive & properties of explosives. **07**
- Q.3** (a) Explain (1) difficulties in boring , (2) Directional drilling **07**  
(b) Describe basic concepts of mine development. **07**
- OR**
- Q.3** (a) Write short note on rotary drilling. **07**  
(b) Which are the various types of drills used in mines? **07**
- Q.4** (a) Explain with neat sketch a process of Diamond drilling. **07**  
(b) Give the properties of Core-recovery & Drilling mud. **07**
- OR**
- Q.4** (a) Explain drill ability of rocks. **07**  
(b) Write short note on underground blasting. **07**
- Q.5** (a) Explain basic loading equipments used in mines. **07**  
(b) Explain Transportation in Surface Mining. **07**
- OR**
- Q.5** (a) Explain Application of different loading equipment. **07**  
(b) Write short note on safety aspects of Mining. **07**

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