

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-III • EXAMINATION – WINTER 2013

Subject Code: 132201**Date: 28-11-2013****Subject Name: Introduction to Mining****Time: 02.30 pm - 05.00 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) What are the different types of drill? Explain any one. **07**
(b) Write importance of mining in Indian context. **07**

- Q.2** (a) Explain in brief various steps involved in open cast mining. **07**
(b) How mines are developed? **07**

OR

- (b) Explain the properties of explosives. **07**

- Q.3** (a) What are the types of drills accessories used in mining? What is its importance. **07**
(b) How prospecting for mining is done. **07**

OR

- Q.3** (a) Write about types of loading equipments used in open-cast mines. **07**
(b) Write about coal reserves of Gujarat. **07**

- Q.4** (a) What are different transportation equipments used in mining and also give its application. **07**
(b) Explain different type of boring? Also explain importance of borehole logging. **07**

OR

- Q.4** (a) Explain the socio-economic impact of mining. **07**
(b) What are the provisions of safety in mines? **07**

- Q.5** **Write Short Note on (any 2) :-** **14**
1. Low & High explosives.
2. Drillability of rocks.
3. Trenching & pitting.
4. Principles of blasting.
