

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-III • EXAMINATION – SUMMER 2013****Subject Code: 132201****Date: 27-05-2013****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) Explain various types of drills used in mining .Where diamond drill is used? **07**
- (b) Write importance of mining industries in Indian Economy. **07**
- Q.2** (a) Explain in brief various steps involved in surface mining. **07**
- (b) How mine development is done? **07**
- OR**
- (b) Write a note on Low & High explosives. **07**
- Q.3** (a) What are the types of drills used in mining? What is Rope drilling? **07**
- (b) Explain various methods of Metaliferrous mining. **07**
- OR**
- Q.3** (a) Which types of loading equipments used in open-cast mines. **07**
- (b) Give the mineral resource of Gujarat. **07**
- Q.4** (a) What are different transportation equipments used in mining and also give its application. **07**
- (b) Explain the importance of borehole data & borehole logging. **07**
- OR**
- Q.4** (a) Write a short note on long hole raising with its application, advantages and disadvantages. **07**
- (b) What are the provisions of health and safety in mines? **07**
- Q.5** Write Short Note on (any 2) :- **14**
1. Properties of explosives.
 2. Drivability of rocks.
 3. Mining methods non coal deposits.
 4. Methods of flushing the bore holes.
 5. Measures in underground blasting
