

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-III • EXAMINATION – WINTER • 2014

Subject Code: 132201**Date: 23-12-2014****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 is the significance of mining in Industrial context? **07**
(b) What are the socio-economic impacts of mining? **07**
- Q.2** (a) Explain the difference in mining methods of coal and non-coal deposits. **07**
(b) What are the health issues concerned with mining? **07**
- OR**
- (b) Compare surface and sub-surface mining. **07**
- Q.3** (a) Compare Board and Pillar method with Long wall method of mining. **07**
(b) What is the importance of Mineral resources of Gujarat in Indian context? **07**
- OR**
- Q.3** (a) What are the principles and methods of mineral prospecting? **07**
(b) Explain the basic principles of drilling. **07**
- Q.4** (a) What are the types of boring? Explain the difficulties in boring. **07**
(b) Write a note on drillability of rocks. **07**
- OR**
- Q.4** (a) What are different types of explosives and also explain their uses. **07**
(b) What are different loading equipments and their uses? **07**
- Q.5** (a) Write a note on any two :- **14**
1. Basic transportation equipments.
2. Types of drills.
3. Properties of explosives.
4. Principles of explosives.
