

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

Subject Code: 132201**Date: 26-05-2014****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) Explain socio-economic impact of mining. **07**
(b) What are various health & safety aspect associated with mining? **07**
- Q.2** (a) Describe the mineral resources of Gujarat. **07**
(b) Write comparison of Surface & Underground mining. **07**
- OR**
- (b) Explain prospecting & reconnaissance operations. **07**
- Q.3** (a) Write short note on rotary drilling. **07**
(b) Describe basic concepts of mine development. **07**
- OR**
- Q.3** (a) Explain drill-ability of rocks. **07**
(b) Describe various types and properties of explosives. **07**
- Q.4** (a) Write advantages & disadvantages of opencast mining. **07**
(b) Explain with neat sketch a process of diamond drilling. **07**
- OR**
- Q.4** (a) Briefly describe the basic loading equipment used in opencast mining. **07**
(b) Describe various types of drills and drilling accessories. **07**
- Q.5** (a) Write the safety measures taken in underground blasting. **07**
(b) Write advantages & disadvantages of underground mining. **07**
- OR**
- Q.5** (a) Explain history of mining. **07**
(b) Write importance of mining industries. **07**
