

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-III Remedial Examination March 2010

Subject code: 132201

Subject Name: Introduction to mining

Date: 10 / 03 / 2010

Time: 03.00 pm – 05.30 pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Draw neat sketch wherever necessary.

- Q.1** (a) Write down effects of mining on society. **07**
(b) Write down effects of mining on Indian economy. **07**
- Q.2** (a) Differentiate between mine air & surface air. **07**
(b) Write short note on safety aspects of mining. **07**
- OR**
- (b) Explain : Surface Mining, Underground Mining **07**
- Q.3** (a) Classify mining methods in coal & non coal deposits on the basis of method of working. **07**
(b) Describe problems associated with drilling. **07**
- OR**
- Q.3** (a) Write short note on rotary drilling. **07**
(b) Write short note on percussive drilling. **07**
- Q.4** (a) Define explosives & write its properties. **07**
(b) Differentiate between low explosive & High explosive. **07**
- OR**
- Q.4** (a) Write short note on direct & indirect initiation. **07**
(b) Define Solid Blasting & write its disadvantages. **07**
- Q.5** (a) Write down basic loading equipment in surface mining. **07**
(b) Write down basic loading equipment in underground mining. **07**
- OR**
- Q.5** (a) Write short note on rope drilling. **07**
(b) Write short note on double tube core barrel. **07**
