

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
