

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE SEM-III Remedial Examination May 2011

Subject code: 132201

Subject Name: Introduction to mining

Date: 27/05/2011

Time: 10.30 am – 01.00 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 using in mines .What is diamond drilling? 07
(b) What are the properties of Explosives? 07
- Q.2 (a) Explain basic loading equipments used in surface mines. 07
(b) Briefly explain provisions of health and safety in mines. 07
- OR**
- (b) General concept of open cast mine development 07
- Q.3 (a) What is drivability of rocks ? Describe it. 07
(b) Explain principle of Boring. 07
- OR**
- Q.3 (a) Describe property of drilling mud & core recovery. 07
(b) Explain directional drilling & bore hole logging. 07
- Q.4 (a) Mineral resource of Gujarat. 07
(b) What are the precautions taken in mines during blasting? 07
- OR**
- Q.4 (a) Mineral resource of India. 07
(b) Describe methods of percussive & rotary drilling 07
- Q.5 (a) History & significant of mining in India . 07
(b) Explain socio-economic impact of mining. 07
- OR**
- Q.5 (a) Describe mining methods for coal deposit. 07
(b) Comparison of under ground and surface mining. 07
