

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII • EXAMINATION – WINTER 2013****Subject Code: 172207****Date: 03-12-2013****Subject Name: Rock Fragmentation****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) What are the methods of drilling for underground mineral excavation? **07**
(b) Explain the types of drilling methods. **07**
- Q.2** (a) Compare the drilling and blasting practice in India and foreign countries. **07**
(b) Explain different computational methods of blasting. **07**
- OR**
- (b) Explain how blasting is carried out. **07**
- Q.3** (a) How is monitoring of blasting is done? **07**
(b) Classify the types of Explosives. **07**
- OR**
- Q.3** (a) What are the application and uses of explosives? **07**
(b) Enlist the blasting impacts. **07**
- Q.4** (a) How the choice of drilling is carried out. **07**
(b) What are the measures to control ground vibrations from blasting. **07**
- OR**
- Q.4** (a) What are the safety measures observed for using explosives. **07**
(b) Explain electric detonator. **07**
- Q.5** (a) Write note on :- **14**
1. Factors affecting rock blasting.
2. Drillability of rock.
3. Nuclear explosive.
4. Air Blast.
