

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE- VII<sup>th</sup> SEMESTER-EXAMINATION – MAY/JUNE- 2012**

**Subject code: 172207**

**Date: 29/05/2012**

**Subject Name: Rock Fragmentation**

**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 in brief Rotary Percussive drilling. **07**  
(b) Explain with a neat sketch Drag cut and Coromant cut. **07**
- Q.2** (a) Write short note on Velocity of detonation. **07**  
(b) Compare low explosive with high explosive. **07**
- OR**
- (b) Write properties of a good explosive. **07**
- Q.3** (a) Explain in brief impacts of ground vibration. **07**  
(b) Explain with a neat sketch priming operation. **07**
- OR**
- Q.3** (a) Write short note on delay blasting technique. **07**  
(b) Compare plain detonator with electric detonator. **07**
- Q.4** (a) Write short note on detonating relay. **07**  
(b) Explain in brief direct and indirect initiation. **07**
- OR**
- Q.4** (a) Explain with a neat sketch chamber blasting. **07**  
(b) Write the precautions in the use of explosives. **07**
- Q.5** (a) Explain the steps which are taken after a misfire. **07**  
(b) Explain in brief Blown out and Blown through shot. **07**
- OR**
- Q.5** (a) Explain with a neat sketch sub grade drilling. **07**  
(b) Explain the constructional features of a hydraulic drill. **07**

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