Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY B. E. - SEMESTER – VII • EXAMINATION – WINTER 2012

Subject code: 172207		Date: 28/12/2012		
Subj	ect N	Jame: ROCK FRAGMENTATION		
Time	e: 10.	30 am - 01.00 pm To	otal Marks: 70	
Inst	ructi	ons:		
	2. N	Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	Explain in brief rotary-percussive drilling.		07
	(b)	Write Factors affecting rock fragmentation in blasting.		07
Q.2	(a)	Write properties of good explosives.		07
	(b)	Write a short note on air blast.		07
		OR		
	(b)	Compare law explosive with high explosive.		07
Q.3	(a)	Write short note on shot firing tools.		07
	(b)	Explain with a neat sketch priming operation.		07
		OR		
Q.3	(a)	Write a short note on drill ability of rocks.		07
	(b)	What is velocity of detonation? How will you measure it?		07
Q.4	(a)	Write safety measure in the use of explosive.		07
	(b)	Compare rotary drilling with percussive drilling. OR		0'
Q.4	(a)	Write a short note on vibration due to blasting.		0′
Q.4	(b)	Explain with a neat sketch sub grade drilling.		07
Q.5	(a)	Explain deck blasting and coyote blasting.		07
-	(b)	Explain any one drilling pattern used for hard rocks. OR		0'
Q.5	(a)	Compare plane detonator with electric detonator.		07
Ų.S	(a) (b)	Explain the steps which are taken after a misfire.		0'
