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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - 7 SEMESTER - • EXAMINATION - SUMMER 2018

Subject Code: 172207 Date: 2 Subject Name: Rock Fragmentation			28-04-2018	
Ti	me: () tructio	02:30 pm to 05:00 pm Total Marks: 70 ons: Attempt all questions. Make suitable assumptions wherever necessary.)	
Q.1	(a) (b)	Define drilling? Explain various purpose of drilling. What is ground vibration? Explain its causes and damages.	07 07	
Q.2	(a) (b)	Write the merit & demerit of Rock Fragmentation. Explain direct initiation and indirect initiation. OR	07 07	
	(b)	Write the advantage and disadvantage of delay blasting technique.	07	
Q.3	(a) (b)	Which factors are considered for selecting drill for an open cast mine? What are the causes of fly rock and how such unexpected projections can be calculated?	07 07	
Q.3	(a) (b)	OR What is rock fragmentation? Write the importance of rock fragmentation. Explain with a neat sketch Drag cut and Cormorant cut.	07 07	
Q.4	(a) (b)	Explain the steps which are taken after a misfire. Write a short note on chamber blasting. OR	07 07	
Q.4	(a) (b)	Explain the various purpose of Rock Fragmentation. What are cap sensitive explosives? Draw a neat sketch of delay detonator.	07 07	
Q.5	(a) (b)	Explain with a neat sketch priming operation. Write a short note on: (1) Air Blast (2) Factors affecting rock blasting. OR	07 07	
Q.5	(a) (b)	Describe the various techniques of used in rock fragmentation. Explain the properties of explosives?	07 07	