Seat No.:	Enrolment No.	

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

Subj	ect c	ode: 142201 Date: 27/12/201	12
Subj	ect N	Name: Mining machinery-1	
Гimе	e: 02 .	.30 pm - 05.00 pm Total Marks: 7	70
[nsti	ructi	ons:	
		Attempt any five questions.	
		Make suitable assumptions wherever necessary.	
	3.]	Figures to the right indicate full marks.	
Q.1	(a)	Explain in brief manufacturing process of wire ropes.	07
	(b)	Explain in brief the tests applied on wire.	07
Q.2	(a)	Write shot note on rope splicing.	07
	(b)		07
	(1.)	OR	
	(b)	Compare compressed air with electricity as a power.	07
Q.3	(a)		07
	(b)	1 1	07
		OR	. –
Q.3	(a)	3	07
	(b)	List out various types of compressors used in mines.	07
Q.4	(a)	Explain in brief working of scraper chain conveyor.	07
	(b)	Explain any one loop take up arranged for belt conveyor system. OR	07
Q.4	(a)	Compare mono cable with bi-cable aerial rope way.	07
Q.4	(b)	Differentiate between direct rope haulage and less rope haulage.	07
Q.5	(a)	Explain in brief construction feature of a shuttle car.	07
	(b)	Write important feature of a good haulage track.	07
		OR	
Q.5	(a)	* *	07
	(b)	Write short note on exhaust trap used in diesel locomotive.	07
