GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER – V (NEW) EXAMINATION – WINTER 2015

	•	t Code: 2152201 Date: 17/12/ 201 t Name: Mining Machinery-II	Date: 17/12/ 2015	
· ·			l Marks: 70	
		Attempt all questions.Make suitable assumptions wherever necessary.		
Q.1	(a) (b)	Write a short note on winding drum with sketch. Explain head gear in brief.	07 07	
Q.2	(a) (b)	List out various types of brakes used in winding and explain one of them. Explain king detaching safety hook with sketch.	07 07	
	(b)	OR List out various signaling devices used in headgear and various arrangement done for underground mining works at surface.	07	
Q.3	(a) (b)	Describe various methods of counter braking loads in short. Write a short note on multi rope winding.	07 07	
Q.3	(a) (b)	OR Explain Ward Leonard Control with sketch. Write a short note on rigid and rope guides.	07 07	
Q.4	(a) (b)	Explain Automatic winding. List out various screening equipment used in mineral handling and explain one of them.	07 07	
Q.4	(a) (b)	OR Explain pit-top and pit-bottom layouts with sketch. Describe workability of coal and also write selection and application of Coal Cutting Machine.	07 07	
Q.5	(a) (b)	Explain operation, principal of Face Loader. Describe Coal Plough with their principal, construction features and their cycle of operation.	07 07	
Q.5	(a) (b)	OR Explain construction features and choice of Face Loaders for coal mines. Describe Continuous Miner with their principal, construction features and their cycle of operation.	07 07	
