Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION – SUMMER 2013

Subject Code: 152201 Subject Name: Mining Machinery-II			Date: 14-05-2013	
•	: 10:	:30 pm to 01:00 pm Total I	Marks: 70	
III,5tI ti	1. 2. 1	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	Describe principle, operation and design of head gear with sketch. List out of safety devices in winding system.	07 07	
Q.2	(a)	Write short note on Ward Leonard Control.	07	
	(b)	Explain various methods of electrical breaking. OR	07	
	(b)	Explain comparison between rigid guides & rope guides.	07	
Q.3	(a)	Write short note on creepers & tipplers.	07	
	(b)	Explain parameter for selecting coal cutting equipments. OR	07	
Q.3	(a) (b)	Give the pit-top layout with a shunk back arrangement. What are the various shaft fittings?	07 07	
Q.4	(a) (b)	Explain working of (1) Gathering arm loader (2) Flight loader. Explain construction, principle, and operation of coal plough.	07 07	
		OR		
Q.4 Q.4	(a) (b)	Give the pit-bottom layout with a run round arrangement. Write short note on safety detaching hooks.	07 07	
Q.5	(a)	Explain side discharge loader with merits & demerits.	07	
	(b)	Explain signalling safety regulations & various signalling system used mines.	in 07	
		OR		
Q.5	(a)	Explain the limitations for the working of a continuous miner.	07	
	(b)	Explain advantages & disadvantages of koepe winding system.	07	
