GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER–V (NEW) - EXAMINATION – SUMMER 2016 Subject Code:2152201 Date:21/05/2016							
S T	ubje Time	ect Name: Mining Machinery - II Date: 11/00/2010   :02:30 PM to 05:00 PM Total Marks: 70   ctions: 1. Attempt all questions.   2. Make suitable assumptions wherever necessary.   3. Figures to the right indicate full marks.					
Q.1	(a) (b)	Explain Headgear with neat and clean sketch. Describe Automatic Winding in brief.	07 07				
Q.2	(a) (b)	Explain Ward Leonard Control in brief with sketch. Write a short note on Electrical Braking. <b>OR</b>	07 07				
	<b>(b)</b>	Write a short note on Mechanical Braking.	07				
Q.3	(a) (b)	List out various types of Winding Drum and explain one of them in brief. Explain King Detaching safety hook with neat and clean sketch. <b>OR</b>	07 07				
Q.3	(a) (b)	Explain Ormrode Detaching safety hook. Write a short note on Multi rope winding.	07 07				
Q.4	<b>(a)</b>	Describe Coal Plough with Principles of operation, construction features and choice of operation.	07				
	<b>(b)</b>	Write a short note on Face Loaders used for coal cutting. OR	07				
Q.4	(a)	Explain Continuous Miner with principles of operation and construction features.	07				
	<b>(b)</b>	Describe various application and selection of Coal Cutting Machinery.	07				

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Q.5	(a) (b)	Explain Pit-top and Pit-bottom layouts with sketch. List out various screening equipment for mineral handling. Explain one of them in brief.	07 07
		OR	

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Q.5	<b>(a)</b>	Write a short note on Creeper and Tippler.	07
	<b>(b)</b>	Describe various signaling systems and devices used in winding.	07

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