GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VI • EXAMINATION – SUMMER 2013

Subject Code: 162202Date: 27-05-20Subject Name: Underground Metal MiningTime: 10.30 am - 01.00 pmTime: 10.30 am - 01.00 pmTotal Marks:Instructions:Total Marks:			5-2013
			ks: 70
 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 			
Q.1	(a) (b)	What is present scenario of Indian metal mining industries? Describe Ore and Waste bins & Skip pockets with illustrative figure.	07 07
Q.2	(a) (b)	Describe classification of different mining methods. Explain electrical and mechanical methods of secondary breaking. OR	07 07
	(b)	Explain top slicing method with sketch.	07
Q.3	(a) (b)	Describe pneumatic and mechanical methods of backfill. Explain block caving methods and their variants.	07 07
Q.3	(a) (b)	OR Describe chutes & grizzlies with illustrative figure. Explain various parameters for selection of stopping methods.	07 07
Q.4	(a) (b)	Explain sand gathering plant & procurement of backfilling material. Describe room & pillar methods in u/g metal mining.	07 07
Q.4 Q.4	(a) (b)	OR Write Advantages & Disadvantages of Sub-level caving method. Explain blast hole and vertical crater retreat methods & their disadvantages	. 07 . 07
Q.5	(a) (b)	Explain cut and fill method in u/g metal mines. Explain various metal mining companies in India.	07 07
Q.5	(a) (b)	OR Explain theoretical aspects of slurry transportation. Explain with figure: Shaft insets and plats.	07 07
