Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- VI • EXAMINATION - SUMMER 2015

Subject Code: 162202		Code: 162202 Date: 04/05/203	Date: 04/05/2015	
Su	bject	Name: Underground Metal Mining		
		0.30am-01.00pm Total Marks:	70	
Ins	tructio			
	1. 2. 3.	Make suitable assumptions wherever necessary.		
Q.1	(a)	Define following terms: (i) Raise (ii) Winze (iii) Slot Raise (iv) Finger raise (v) Stope (vi) Chute (vii) Cross cut	07	
	(b)	What is present scenario of indian metal mining industries?	07	
Q.2	(a) (b)	Give detail classification of various stoping methods. Explain selection parameters of stoping methods. OR	07 07	
	(b)	Explain electrical and mechanical methods of secondary blasting.	07	
Q.3	(a) (b)	Explain drop raising method. Explain various open stoping methods. OR	07 07	
Q.3	(a) (b)	Describe design and construction of draw points. Explain shrinkage stoping with sketch.	07 07	
Q.4	(a) (b)	Describe pneumatic and mechanical methods of back fill. Explain cut and fill method of stoping. OR	07 07	
Q.4	(a) (b)	Explain sand gathering plant and procurement of backfilling material. Explain advantages of supported stoping methods.	07 07	
Q.5	(a) (b)	Explain square set stoping with ketch. Explain sub level stoping with sketch.	07 07	
0.5	(c)	OR Evaluin block caving method	07	
Q.5	(a) (b)	Explain block caving method. Explain Vertical crater retreat method of stoping.	07	
