GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII • EXAMINATION – WINTER 2013

Subject Code: 172201 Date: 26-				11-2013	
Subject Name: Mine Planning Time: 10:30 TO 01:00 Total Mark Instructions:					
	1. 2.	Att Ma	empt all questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.		
Q.1		(a) (b)	what are the various methods of reserve estimation ? Explain it. What is Role of mine planning in mining ventures?	07 07	
Q.2		(a)	Explain planning stages of open cast metal mine with annual production capacity 10 lacs tone. With stripping ratio 1:5. Assume your own equipment combination.	07	
		(b)	Write short note on: Effect of mining losses on rate of production in metal mining.	07	
		(b)	Advantages of underground mine working.	07	
Q.3		(a)	Prepare project report of open cast mine; production 4 lacs tone, ore	07	
		(b)	body thickness 15 meter, assumes other factors. Write short note on: optimum geometrical size of mine. OR	07	
Q.3		(a) (b)	Define: Geological reserve. Explain various steps of feasibility study report for metallic & non- metallic minerals?	07 07	
Q.4		(a) (b)	What are the various parameter effecting Haul road design. Write short note on: Grade tonnage curves and its computation methods. OR	07 07	
Q.4 Q.4		(a) (b)	Explain extraction for lime stone deposit by surface miner. Write short note on : Taylor's mine life rule.	07 07	
Q.5		(a)	What are various safety aspect considered in during dump planning in	07	
		(b)	open cast mining? Define : [1] ore body , [2] bench geometry & [3] cut off grade OR	07	
Q.5		(a) (b)	Why underground mining system is presently mostly adopted in India? Define: Mineable reserve.	07 07	
