Seat N	No.: Enrolment N	O	
	GUJARAT TECHNOLOGICAL UNIVER BE - SEMESTER-VII • EXAMINATION – WINTER •		
•	ect code: 172201	Date: 25/11	/2014
Time Insti 1. Atte 2. Mal	ect Name: Mine Planning e: 10:30 AM TO 01:00 PM ructions: empt all questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.	Total Mark	s: 70
Q-1.	(a) What is mine planning? Explain strategic mine planning.		07
	(b) Explain (1) Losses and Dilution (2) Mine Optimization		07
Q-2.	(a) What is ultimate pit limit and illustrate in schematic diagram a d	esign	07
	Procedure in open pit mine with regard to ultimate pit limit deter	rmination?	
	(b) Write a note on Details project report.		07
	OR		
	(b) Describe Grade tonnage curve and mining recovery.		07
Q-3.	(a) Write a note on construction of haul road.		07
	(b) Explain role of planning and scheduling of production in U/G m	ining venture.	07
	OR		
Q-3.	(a) Explain Taylor's mine life rule.		07
	(b) Give advantages of U/G mine working.		07
Q-4.	(a) Define reserve estimation. Explain various methods of it.		07
	(b) Describe the factors to be considered in planning and designing	of a	07
	Surface mine.		
	OR		
Q-4.	(a) Explain (1) Stripping ratio (2) Optimal geometrical size of a mi	ine.	07
	(b) Draw schematic diagram of bench. Define (1) Bench (2) Cut.		07

Q-5. (a) What do you mean by cutoff grade? How do you determine the

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	Cutoff	grade	for	gold	ore.
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	(b) Give merits and demerits of open pit mining.	07
	OR	
Q-5.	(a) Describe design of haul roads. Explain parameter effecting on it.	07
	(b) Explain (1) Life of mine (2) Rate of production.	07