Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VII(NEW) • EXAMINATION – WINTER 2016

Date:18/11/2016

Subject Code:2172201

Subject Name:Mine Planning Time:10.30 AM to 1.00 PM Instructions: 1. Attempt all questions.		0.30 AM to 1.00 PM ons: Attempt all questions.	Total Marks: 70	
	2. 3.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	What do you mean by basic difference cut off grade? Explain its determination.	07	
	(b)	What is Role of mine planning in mining ventures?	07	
Q.2	(a) (b)	What are various economic considerations for optimization of mine design? Explain various Mine planning components. OR	07 07	
	(b)	Explain various methods of reserve estimation.	07	
Q.3	(a) (b)	Explain grade Tonnage curves and their computation. What are the advantages of open cast mine working OR	07 07	
Q.3	(a) (b)	What do you mean by Mining losses? How it is affecting life of mine? Role of bench geometry and mine layouts in surface mine planning.	07 07	
Q.4	(a) (b)	What is role of feasibility study report for metallic & non- metallic minerals? Explain the design of haul road and importance of it. OR	07 07	
Q.4	(a)	What is the cut off grade and how you determine the cut off grade of limestone mines supplying limestone ore to captive cement plant?	07	
	(b)	Explain optimal geometrical size of a mine.	07	
Q.5	(a) (b)	Write Note on: Feasibility report for non-metallic minerals Write note on: Legal aspects of mine closure.	07 07	
		OR		
Q.5	(a) (b)	Write Note on: Planning and scheduling of production. Write Note on: Mine Losses.	07 07	
