Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY

## BE - SEMESTER-VII • EXAMINATION - SUMMER • 2014

Subject Code: 172201		Code: 172201 Date: 22-05-201	Date: 22-05-2014	
	•	Name: Mine Planning		
Time: 02.30 pm - 05.00 pm Instructions:  Total Ma		ks: 70		
Inst	1. 2.	Attempt all questions.		
Q.1	(a) (b)	How mine planning is done? What are the components of mine planning? What are various technical considerations for optimization of mining?	07 07	
Q.2	(a) (b)	Explain the role of feasibility report for metallic and non-metallic minerals. How mine reserve estimation is done? Explain any 1 methods of estimation.  OR	07 07	
	<b>(b)</b>	How optimization of mine size is done?	07	
Q.3	(a) (b)	What are the economical considerations to be taken care in mine design? Explain Taylor's mine life rule.	07 07	
		OR	. –	
Q.3	(a) (b)	What are grade tonnage curves? How it is computed? How is mining loss calculated? How it affects mine life?	07 07	
Q.4	(a)	Prepare detail project report for mining which has ore depth of 50 meters and monthly production of 8000 tons.	07	
	<b>(b)</b>	What are the advantages and disadvantages of open cast mining?  OR	07	
Q.4	(a)	What is the importance of design of haul road?	07	
	<b>(b)</b>	Differentiate Geological reserve and mineable reserve.	07	
Q.5		<ol> <li>Write note on any two:-</li> <li>Dump planning.</li> <li>Underground Mining.</li> <li>Cut off grade of mineral reserve.</li> <li>Geometric size of mine.</li> </ol>	14	

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