## **GUJARAT TECHNOLOGICAL UNIVERSITY** BE SEMESTED VILEYAMINATION SUMMED 2016

<b>BE - SEMESTER-VII EXAMINATION - SUMMER 2016</b>				
Su	bject	t Code:172201 Date:16/05/201	Date:16/05/2016	
Subject Name: Mine Planning				
Time:02:30 PM to 05:00 PM Total Mar			70	
Instructions:				
1. Attempt all questions.				
<ol> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>				
	5	rigures to the right multate full marks.		
Q.1	<b>(a)</b>	What is mine planning? What are components of mine planning?	07	
	<b>(b)</b>	Explain grade tonnage curve.	07	
Q.2	(a)	Explain Taylor's mine life rules.	07	
C	<b>(b)</b>	What is the role of planning in mining venture?	07	
		OR		
	<b>(b)</b>	Describe Parameter affecting design of haul road.	07	
Q.3	<b>(a)</b>	Explain various types of reserve estimation.	07	
	<b>(b)</b>	What is role of Feasibility study report for metallic & non metallic minerals?	07	
		OR		
Q.3	(a)	Draw schematic diagram of bench define (1) Bench (2) Cut.	07	
	<b>(b)</b>	What are the merit and demerit of surface mining?	07	
Q.4	<b>(a)</b>	Define the following: (1) Mineable Reserve (2) Geological Reserve.	07	
	<b>(b)</b>	Explain mine system and sub-system.	07	
0.4	(-)	OR Write a short note on details Draiset report	07	
Q.4	(a) (b)	Write a short note on details Project report. How are mine losses determined?	07 07	
Q.5	(a)	Explain the factors considered in dump planning?	07	
	<b>(b)</b>	Which are the challenges posted in mine planning? OR	07	
Q.5	(a)	What is cut off grade? List out the different method for determining the cut off	07	
~~~	()	grade. Explain any one method.		
	<b>(b)</b>	Write a short note on :	07	
		(1) Underground mining.		
		(2) Optimal size of mine.		

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