<i>beat</i> 110			
GUJARAT TECHNOLOGICAL UNIVERSITY BE – SEMESTER V • EXAMINATION – WINTER - 2012 Subject code: 152202 Date: 12-01-2013			
U C			
Subject Name: Surface Mine Production			
Time: 0	2:30	pm to 05:00 pm Total Marks: 70	
Instructions:			
		empt all questions.	
		ke suitable assumptions wherever necessary.	
3.	Fig	ures to the right indicate full marks.	
Q.1	(a)	Give the layout of bench and explain the terms bench, bench height, bench	07
		width, cut and face angle.	
	<b>(b)</b>	Write a note on width and height of the bench with illustrative diagram.	07
	()		
Q.2	(a)	Define surface mining. Explain characteristic of open cast work.	07
<b>~·</b> =	(b)	List out ground preparation equipment. Explain any one type of it.	07
	(U)		07
		OR	~-
	<b>(b)</b>	What is stripping ratio? How it will help in determining choice of mining?	07
Q.3	<b>(a)</b>	List out criteria for selection of drill.	07
	<b>(b)</b>	Explain major operation in surface mining.	07
		OR	
Q.3	(a)	Explain: twin bench blasting and secondary blasting.	07
Q.5	( <b>a</b> )	Explain: twill belief blasting and secondary blasting.	07
	( <b>b</b> .)	Describe marite and limitations of onen cost mining	07
	<b>(b)</b>	Describe merits and limitations of open cast mining.	07
			~ <b>-</b>
Q.4	<b>(a)</b>	Explain the factor influencing choice of excavating.	07
	<b>(b)</b>	Explain over casting by dragline with its method.	07
		OR	
Q.4	(a)	Explain different drilling patterns.	07
Q.4	(b)	Write down the parameters with equation for designing the blasting	07
2	(0)	pattern.	07
0.5			
Q.5	<b>(a)</b>	What is explosive? Explain coyote blasting and multi row blasting.	07
	<b>(b)</b>	Explain the factors affecting the choice of a transport system in opencast	07
		mining.	
		OR	
Q.5	(a)	Point out the comparison between diesel shovel and electrical shovel.	07
<b>~</b> ***	(b)	What is Reclamation? Explain land reclamation.	07

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