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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- III (New) EXAMINATION - WINTER 2019

Subject Code: 3132201 Date: 30/11/2019

Subject Name: Introduction to Mining

Time: 02:30 PM TO 05:00 PM **Total Marks: 70**

Instructions:

1. Attempt all questions.

2. Make suitable assumptions wherever necessary.

3.	Fig	ures to the right indicate full marks.						
	J		Marks					
Q.1	(a)	What is mineral? List of mineral resources available in Gujarat.	03					
	(b)	Explain: Various stages of mining	04					
	(c)	Give a comparison between underground and surface mining.						
	. ,							
Q.2	(a)	Which are the difficulties take place during boring?	03					
_	(b)	Describe the directional drilling.	04					
	(c)	Explain with neat sketch principles of boring.						
	, ,	c) Explain with neat sketch principles of boring. OR						
	(c)	Explain in details with sketch: Core recovery	07					
Q.3	(a)	What is Explosive? How it will helps in mining?	03					
	(b)	Explain the basic concept of blasting.	04					
	(c)	Explain in brief all types of explosives with its applicability.	07					
	OR							
Q.3	(a)	Describe the detonator with its types and applicability.	03					
	(b)	Explain: Blasting accessories	04					
	(c)	Explain in brief all properties of explosive.	07					
Q.4	(a)							
	(b)	Write a short note on mine closure						
	(c)	Explain any one loading equipment used in opencast mining						
		with neat sketch and brief specifications.						
		OR						
Q.4	(a)	List out the transportation equipment used in underground	03					
		mining.						
	(b)	List out the transportation equipment used in surface mining.	04					
	(c)	Explain any one loading equipment used in underground mining	07					
		with neat sketch and brief specifications.						
Q.5	(a)	Describe in brief: Selection of drill bits	03					
Q. 10	(b)	Write a short note on bore hole logging	04					
	(c)	Explain any one loading equipment used in underground mining	07					
	(0)	with neat sketch and brief specifications.						
		OR						
Q.5	(a)	Explain : Drillability of the rock	03					
~··	(b)	How to interpret the bore hole data?	04					
	(c)	Explain any one loading equipment used in underground mining	07					
	(0)	with neat sketch and brief specifications.	07					
		The field officer and office oppositionations.						
