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		GUJARAT TECHNOLOGICAL UNIVE	
· · · · · · · · · · · · · · · · · · ·		BE - SEMESTER-III(New) • EXAMINATION – WINT	Date:06/01/2017
Subject Code:2132201 Subject Name:Introduction To Mining Time:10:30 AM to 01:00 PM			
Instr	uction 1	ns: Attempt all questions.	
		Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
			MARKS
Q.1		Short Questions	14
	1	Define the following terms: stripping ratio.	
	2	What is explosive?	
	3	Explain the name of mining industries of india & Gujarat	
	4	Explain the full form name of PETN.	
	5	What is exploration? How can use in mines?	
	6	What is drilling?	
	7	Explain various type of drilling pattern.	
	8	What is VOD? Write down of VOD Unit.	
	9	Explain the types of detonator.	
	10	What is blasting? Define the following terms: (a) Specing (b) burden	
	11 12	Define the following terms. (a) Spacing.(b) burden. Define the rock, mineral and ore.	
	13	Explain the different between low & high explosive.	
	14	Explain the list of machinery used in opencast mine.	
Q.2	(a)	• •	03
~ ·-		Explain Socio-Economic impact of mining industry.	04
	(c)	Explain types of explosive & properties of explosives.	07
		OR	
	(c)	Write short note on rotary drilling.	07
Q.3	(a)	Mineral resource of India.	03
	(b)	Describe basic concepts of mine development	04
	(c)	Explain with neat sketch a process of Diamond drilling.	07
0.0		OR	0.2
Q.3	(a)	Explain history of mining.	03
	(b)	Explain (1) difficulties in boring (2) Directional drilling.	04
ΩA	(c) (a)	Explain Transportation in Surface Mining. Write importance of mining industries	07 03
Q.4	(a) (b)	Write importance of mining industries. Describe various methods for Coal and non – coal deposits.	03 04
	(c)	What are the principles and methods of mineral prospecting?	

OR Q.4 (a) Describe Minor, Reportable, & Serious body injuries. 03 (b) What are different loading equipments and their uses? 04 Explain the neat sketch manual drilling. **(c) 07** (a) Q.5 Describe Trenching and Pitting. 03 Compare surface and sub-surface mining. 04 **(b)** Give the importance of Exploration in mining. (c) **07** OR (a) How mine development is done? 03 Q.5 (b) Write short note on safety aspects of Mining. 04 (c) Explain various types of drilling pattern. **07** ******

1