

Enrolment No._____

www.FirstRanker.com

www.FirstRanker.com

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code: 2182203 Date: 21/11/2019

Subject Name: Mining & Processing of Dimensional Stone

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

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

			MARKS
Q.1	(a)	Explain the working of chain saw machine with figure	03
C	(b)	Explain Geological & physio-mechanical properties of dimensional stone.	04
	(c)	Explain various conventional mining methods of sand stone mineral	07
Q.2	(a)	Differentiate the bench geometry of dimensional stone mine and open cast metal mine.	03
	(b)	Describe environmental impact of mining and processing of dimensional stones.	04
	(c)	Explain various types of policing machine. OR	07
	(c)	Explain various criteria for selection of dimensional stone deposit.	07
Q.3	(a)	Explain the method of determining rock quality designation.	03
	(b)	What are the various secondary uses of quarry & industry waste of marble &	04
		lime stone?	
	(c)	Explain allotment procedure of lease and other legal aspects for marble & limestone mineral.	07
		OR	
Q.3 Q.4	(a)	Write a short note on Marble deposit in Gujarat.	03
	(b)	Write short note on: Abrasive properties of dimensional stone	04
	(c)	Advantages of using of cranes / hydraulic excavators for marble & granite mining.	07
	(a)	Describe the various classification of marble.	03
	(b)	Describe working of derrick crane machine with its sketch.	03
	(c)	List out machinery used for dimensional stone mining and processing. Which	07
	(0)	are the factors to be considered while selecting it?	07
		OR	
Q.4	(a)	Write various prevailing uses of stones.	03
	(b)	Write short note on automatic tiling plant.	04
	(c)	Advantages and disadvantages of flame jet cutting method used for Dimensional stone mining.	07
Q.5	(a)	What is the importance of Exploration?	03
	(b)	Explain blasting method used for dimensional stone mining.	04
	(c)	Describe gang saw with diagram.	07
		OR	
Q.5	(a)	Define: Dimensional Stone also write their examples.	03
	(b)	Describe Wire saw with diagram.	04
	(c)	Resources of limestone deposits in India and Gujarat.	07

1
