Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **BE SEM-VIII Examination May 2012**

Subject code: 182203

Subject Name:	Mining &	c processing of	f Dimensional stone
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Date: 14/05/2012 Time: 10.30 am – 01.00 pm Total Marks: 70

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

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Q.1	(a)	Explain Geological & physio - mechanical properties of dimensional stone.	07
	<b>(b)</b>	Write short note on : Marble deposit in Gujarat.	07
Q.2	(a) (b)	Explain various conventional mining methods of sand stone mineral.  Describe environmental impact of mining and processing of dimensional stones.	07 07
		OR	
	<b>(b)</b>	Write short note on: Automatic tiling plant.	07
Q.3	(a)	Explain flame jet cutting methods used in mining of Granite & Marble? Also describe its limitations.	07
	<b>(b)</b>	Explain mine layout of marble mine with use of chain saw cutting methods.	07
		OR	
Q.3	(a)	Describe preparation & mounting of blade / discs used for dimensional stone mining.	07
	<b>(b)</b>	Advantages of using of cranes / hydraulic excavators for marble & granite mining.	07
Q.4	(a) (b)	Write short note on :Granite deposit in Gujarat vis –a-vis India .  Explain allotment procedure of lease and other legal aspects for marble & limestone mineral.	07 07
		OR	
Q.4	(a) (b)	Explain various criteria for selection of dimensional stone deposit. Write short note on : Abrasive properties of dimensional stone .	07 07
Q.5	(a)	Write advantages & disadvantages of use of wire saw cutting methods.	07
	<b>(b)</b>	Explain blasting technique in dimensional stone mining.	<b>07</b>
		OR	
Q.5	(a)	What are the various secondary use of quarry & industry waste of marble & lime stone mineral.	07
	<b>(b)</b>	Explain various types of policing machine.	07

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