Seat No.:	Enrolment No.
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Subject Code: 182203

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII • EXAMINATION - SUMMER 2014

Date: 03-06-2014

Subject Name: Mining & processing of Dimensional stone Time: 10:30 am TO 01:00 pm Total Marks: 70			
Instruc	ctio		
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q-1	(a)	Explain resources of sandstone and marble as dimensional stone in India.	07
	(b)	Explain geotechnical and mineralogical properties of dimensional stone.	07
Q-2	(a)	Describe quarry waste and processing waste with its application as environmental aspect of stone industry.	07
	(b)	Write a short note on marble deposits of Rajasthan and Gujarat. OR	07
	(b)	Write a short note on abrasive properties of dimensional stone.	07
Q-3	(a)	List out machinery used for dimensional stone mining and processing. Which are the factor to be considered while selecting it?	07
	(b)	Describe working of derrick crane machine with its sketch.	07
		OR	
Q-3	(a)	Explain mine layout of marble and granite mine with use of diamond wire saw cutting methods.	07
	(b)	Explain various types of polishing machine.	07
Q-4		Explain various criteria for selection of dimensional stone deposit.	07
		Write short note on: Automatic tiling plant.	07
	(0)	OR	0.
Q-4	(a)	Describe environmental impact of mining and processing of dimensional stones.	07
•		Explain allotment procedure for quarry licence / grant of mining lease and other legal aspects for granite mineral.	07
Q-5	(2)	Explain blasting method used for dimensional stone mining.	07
Q -3		Describe preparation & mounting of blade / discs used for dimensional	07
	(0)	stone mining.	07
		OR	
Q-5	(a)	Advantages and disadvantages of flame jet cutting method used for Dimensional stone mining.	07
	(b)	Explain the uses and marketing / export of dimensional stone.	07
