Sea	at No.:	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY ME – SEMESTER I (NEW) – • EXAMINATION – SUMMER 2016	
Su	ıbject	Code: 2711402 Date:18/05/201	16
Ti	•	Name: Construction Techniques 2:30 pm to 05:00 pm Total Marks: 'ons:	70
		Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Write advantages & disadvantages on Automation. "Modular Co-ordination ensures mechanization of building industry". Justify the statement with suitable examples.	07 07
Q.2	(a)	Enlist principles of modular coordination. Why the concept of tolerance is introduced as one of the principle of modular coordination.	07
	(b)	Explain the essential of repair for the civil structure. OR	07
	(b)	Write steps and its explanation for construction below the water table.	07
Q.3	(a) (b)	What is Underpinning? Why it is carried out? Enlist and explain dewatering technique in details. (Any Two)	07 07
		 Electro Osmosis Freezing and Thawing Multiple Well Point System OR	
Q.3	(a)	Explain Well-point system in details.	07
	(b)	Write Safety Precautions for Demolition and Dismantling Work	07
Q.4	(a) (b)	Write advantage of aluminum formwork over traditional formwork? Write "Safety" in Erection.	07 07
Q.4	(a) (b)	OR What are the factors which involves in selection of route for tunnels. Explain: 1. Box jacking 2. Pipe jacking	07 07
Q.5	(a)	Explain: (Any Two) 1. Open dewatering system 2. Sumps and ditches system 3. Multi well point system	07
	(b)	Extrude the term: resurfacing and rehabilitation OR	07

Q.5 (a) Give description on Screw and Anchors used in Construction.

(b) Advantage and Disadvantage of scaffoldings.

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