Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER-VIII EXAMINATION - WINTER 2015

Subject Code:X80605  Subject Name: Repairs and Rehabilitation of Structures (Dep. elective Time: 02:30pm to 05:00pm  Instructions:  1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.		e II)	
Q.1	(a) (b)	Explain the causes of distress in concrete structures. Elaborate the distress diagnostic techniques.	07 07
Q.2	(a) (b)	Explain the terms: Strengthening, Restoration, repair and Retrofitting.  Explain the term durability of concrete and factors affecting it.  OR	07 07
	<b>(b)</b>	Explain the term permeability of concrete and factors affecting it.	07
Q.3	(a) (b)	Elaborate the mechanical properties of repair material that affects the repair. Write in short "Polymer concrete".	07 07
		OR	
Q.3	(a) (b)	Write in short "Vacuum concrete". Enlist the methods of corrosion protection. Explain any one of them.	07 07
Q.4	(a) (b)	Explain about concrete jacketing and its usefulness.  Explain the repair of structures damaged due to earthquakes.  OR	07 07
Q.4	(a) (b)	Explain the repair of structural member distress due to marine exposure. Explain the long term health monitoring techniques.	07 07
Q.5	(a) (b)	Enlist the factors affecting the selection of demolition methods.  Write in short about "Top down manual method".  OR	07 07
Q.5	(a)	Write in short on Demolition plan.	07
	<b>(b)</b>	Describe the various methods of demolition of framed RC structures.	07

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