Seat No.:	Enrolment No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY** PDDC - SEMESTER-VIII EXAMINATION - SUMMER 2016

Subject Code: X80605 Date: 05/05/2016			
1	<b>Sime</b>	ect Name:Repairs and Rehabilation of Structures :10:30 AM TO 01:00 PM Total Marks: 70 etions:	
	nsti uv	<ol> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>	
Q.1	(a) (b)	Explain the causes of destress in structures.  Elaborate on Condition assessment of RC structures and distress-diagnostic techniques.	07 07
Q.2	(a)	Explain the various demolition techniques with its advantages and disadvantages.	07
	<b>(b)</b>	What is the meaning of durable concrete? What are the test performed to check the durability?	07
	<b>(b)</b>	OR  How the corrosion takes place? Explain the various techniques to avoid or delay the corrosion.	07
Q.3	(a) (b)	Clearly distinguish the three terms: Repair, Rehabilitation and Retrofitting. Explain the various repair techniques to overcome low strength of member.  OR	
Q.3	(a) (b)	Explain long term health monitoring techniques.  Explain the retrofitting technique for damaged column.	
Q.4	(a)	Under which circumstance shoring and underpinning is used. Draw neat sketches.	07
	<b>(b)</b>	Write short note on Foamed Concrete.  OR	07
Q.4	(a) (b)	Write short note on Sulphur infiltrated concrete. How expansive cement will be made up? Elaborate its uses.	
Q.5	(a) (b)	Explain the method of cathodic protection.  Elaborate the use of polymer concrete.  OR	07 07
Q.5	(a) (b)	How Vacuum concrete will be made up? Elaborate its uses.  Explain the various repair techniques to be used under marine exposure.	07 07

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