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Qı	uestion Pa	aper Co	ode: 407	63		
B.E./B.T	ech. DEGREE I			MAY 2018		
		ghth Semes vil Engineer				
CE 6021 – F	REPAIR AND R	EHABILITA gulations 20		RUCTURES		
Time: Three Hours				Maximum: 10	0 Marks	
	Answer ALL questions.					
		PART – A		(10×2=20	Marks)	
1. Define maintenan	ce.					
2. List out any four c	auses of deterior	ation of stru	ctures.			
3. What are the factor	ors that affect the	e durability	of concrete?			
4. State the importan	nce of cover thick	ness in conc	rete.			
5. List the types of Po	olymer concrete.					
6. What is meant by	Geo-polymer con	crete? List	the materials u	sed for making		
geopolymer concre	ete.					
7. What is the purpo	se of underpinni	ng?				
8. State the properties	es of corrosion in	hibitors.				
9. List the methods a	dopted to overcor	me low mem	ber strength in	concrete structu	res.	
10. Name any four En	igineered demoli	tion techniq	ues for RC Stru	actures.		

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	PART – B (5×16=80 Mar	ks)			
11. a)	Explain the steps involved in the assessment procedure for evaluating the				
	damages and to carry out rehabilitation work.				
	(OR)				
b)	Write the various aspects of inspection.				
12. a)	Explain the different types of cracks found in concrete structures. Also list the				
	remedial measures.				
	(OR)				
b)	Discuss the effects of temperature and climate on concrete structures.				
13. a)	Explain the manufacturing process, properties and uses of High performance concrete.				
	(OR)				
b)	Explain in detail				
	i) Self Compacting Concrete.	(8)			
	ii) Polymer Concrete.	(8)			
14. a)	Write elaborate notes on the following Non Destructive testing techniques as per IS.				
	i) Rebound Hammer test.	(8)			
	ii) Ultrasonic pulse velocity.	(8)			
	(OR)				
b)	Write short notes on mechanism of				
	i) Epoxy injection.	(8)			
	ii) Underpinning.	(8)			
15. a)	Discuss the impulsion method of demolition of structures.				
	(OR)				
b)	How do you repair and rehabilitate a structure damaged due to fire?				
	Name ince four Engineered describe tree tree mouses for RC Stientures.				