Reg. No.:										
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Question Paper Code: 49105

B.E./B.Tech. DEGREE EXAMINATION, SEP 2020

Elective

Civil Engineering

14UCE905- REPAIR AND REHABILITATION OF STRUCTURES

(Regulation 2014)

Dur	ation: One hour				Maximum: 30) Marks		
		PART A - (6 x	x 1 = 6	Marks)				
	(A	Answer any six of the	e follov	wing Questions)				
1.	Maintenance is a and steady state activity.				CO1- R			
	(a) occasional	(b) cyclic		(c) annual	(d) rare			
2.	The sulphate attack can be controlled by					CO1- R		
	(a) Air entrainment	(b) High alumina ce	ment	(c) Pozzolana	(d)All the	(d)All the above		
3.	For preparing mortar is used along with cement and water					CO2-U		
	(a) Aggregates	(b) Bricks		(c)Sand	(d) Steel			
4.	Concrete has a good re	esistant against				CO2- R		
	(a) Cavitation	(b) Corrosion		(c) Abrasion	(d) All th	e above		
5.	Concrete produced by removing excess water is known as							
	(a) vacuum concrete		(b) s	elf compacting con	acrete			
	(c) FRC (d) dry pack							
6.	Cracks may be consid		CO3- U					
	(a)Aesthetically unacceptable			(b) Structure non water tight				
	(c) Affect the durability			All the above				
7.	Shotcrete concrete contains a well grained aggregates of					CO4-U		
	(a) 10mm or less in size	ze	(b) 2	20mm or less in size	e			
	(c) 10mm or more in size			None of the above				
8.	Dry pack is used for the	he repair of				CO4- U		
	(a) Dormant cracks	(b) Filling	(c) (Growing cracks	(d) All th	e above		

9.	Suitable time to take u	CO5- R				
	(a) winter	a) winter (b) autumn (c) spring		(d) summer		
10.	One of the method ad	one of the method adopted for protecting corrosion is				
	(a) painting	(b) Distempering	(c) varnishing	(d) Cleaning		
		PART-B (3	$8 \times 8 = 24 \text{ Marks}$			
		(Answer any three of	f the following Questions)			
11.	Brief about causes, ty	CO1-U	(8)			
12.	Briefly explain the omeasures.	CO2 -U	(8)			
13.	Describe in detail ab with industrial wastes	CO3-U	(8)			
14.	With the aid of neat stechniques.	sketches, explain any	two Non destructive testing	CO4-U	(8)	
15	How do you improve	the load carrying can	ecity of column? Explain	CO5-II	(8)	