POLYTECHNIC, B.E/B.TECH, M.E/M.TECH, MBA, MCA & SCHOOL

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Reg. No.:				
Question Paper Code: 50321				
B.E./B.Tech DEGREE EXAMINATIONS, APRIL/MAY 2023.				
Seventh/Eighth Semester				
Civil Engineering				
CE 8020 — MAINTENANCE, REPAIR AND REHABILITATION OF STRUCTURES				
(Regulations 2017)				
Time: Three hours Maximum: 100 marks				
Answer ALL questions.				
PART A — $(10 \times 2 = 20 \text{ marks})$				
1. What are the classifications of chemical attack on concrete?				
2. Define creep on concrete.				
3. Define popouts on concrete.				
4. How to minimize frost damage?				
5. How to reuse industrial waste?				
6. How geopolymer concrete is produced?				
7. What is meant by pitting corrosion?				
8. Differentiate between shoring and underpinning.				
9. What is meant by grouting?				
10. What are the stages of concrete repair?				
PART B — $(5 \times 13 = 65 \text{ marks})$				
11. (a) Describe the thermal movement in concrete structures.				
Or				
(b) Describe the procedure to evaluate the cause for deterioration of concrete structures?				
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	12.	(a)	Explain about the poor construction practice and errors in concrete structures.	lesign of
			Or	
		(b)	Explain Parada obott require notizeur	
			(i) External stressing	(4)
			(ii) Stitching III. MAN III AND AN AND AND AND AND AND AND AND AND	(4)
			(iii) Polymer impregnation.	(5)
	13.	(a)	What aspects are to be investigated for high performance in exposure conditions?	complex
			O MONTA ÉLINTA DE MAIA STEPLET STOMADASTALAM — 0506 S.	
		(b)	Explain	
		acina Ost		(6)
			(ii) Self compacting concrete.	(7)
	14.	(a)	Explain the basic principle of corrosion. Explain the various of protection techniques.	corrosion
			Or	
		(b)	Explain different tests used in NDT methods. Explain briefly arthem.	ny two of
	15.	(a)	Explain briefly about the process of jacketing technique.	
			Or	
		(b)	Explain the classification of cracks and how the cracks can be me	easured.
			PART C — (1 × 15 = 15 marks)	
	16.	(a)	How do you strengthen the various structural elements? Exdetails with sketches.	
			Or	
		(b)	Discuss about explosive demolition and chemical demolitic techniques.	on agent
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