III B. TECH I SEMESTER REGULAR EXAMINATIONS, FEB - 2022 REPAIR AND REHABILITATION OF BUILDINGS

(Civil Engineering)

Time: 3 Hours Max. M		larks: 60	
		Note: Answer ONE question from each unit $(5 \times 12 = 60 \text{ Marks})$	
		UNIT-I	
1.	a)	Explain about Wetting and Drying physical process.	[6M]
	b)	Explain the Chemical Processing of deterioration due to Sulphate attack, its effects and preventive measures	[6M]
		(OR)	
2.		Explain in detail about Preventive measures and repairs of cracks in concrete	[12M]
		UNIT-II	
3.		Explain in detail about	[12M]
		i) Rebound hammer	
		ii) Corrosion meter and	
		iii) Pull out test	
		(OR)	
4.		Describe about	[12M]
		i) Resistivity meter	
		ii) Core cutting method	
		UNIT-III	
5.		Explain in detail about the various diagnostic testing methods	[12M]
		and equipments for structural failure.	
		(OR)	
6.		Explain in detail about causes of structural failure with examples.	[12M]
		UNIT-IV	
7.	a)	Briefly explain about natural admixtures.	[6M]
	b)	Describe the Carbon fiber wraps.	[6M]
	,	(OR)	. ,
8.		Briefly describe about purpose of chemical, mineral	[12M]

admixtures, Glass fibers and Steel fibers.

UNIT-V

9. Explain about Grouting and Shotcreting.

[12M]

(OR)

- 10. a) Describe in detailed about underpinning with process and [6M] Precautions.
 - b) Describe in detailed about underwater repair with process and [6M] Precautions.

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