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## Eighth Semester B.E. Degree Examination, July/August 2022 **Rehabilitation and Retrofitting**

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module,

	N	ote: Answer any FIVE full questions, choosing ONE full question from each m	odule.
		Module-1	
1	a.	Explain how Freeze and Thaw on concrete causes deterioration of concrete struc	tures.
			(10 Marks)
	b.	Explain the following terms:	1
		(i) Repair. (ii) Maintenance. (iii) Rehabil	itation.
		(iv) Retrofitting. (v) Strengthening	(10.7/11)
		OR	(10 Marks)
2	0	Write short notes on Durabiity of concrete and Acid attack.	(08 Marks)
2	a. b.	Explain the evaluation of structural damages to the concrete structural elem	
	U.	earthquake.	(12 Marks)
2		Module-2	(08 Marks)
3	a.	Explain the step by step Damage Assessment Procedure. What is destructive testing systems? Why load tests are usually carried?	(04 Marks)
	b. c.	Explain the penetration technique.	(04 Marks)
	C.		(001.11115)
		OR	et emonodyma
4	a.	Write the objectives of rapid structured assessment. Explain the rapid assessment	(12 Marks)
	b.	List the common methods used in construction industry for semi-destructive tes	
	0.	Elst the common methods used in constituetion madaly for semi-desired	(08 Marks)
		Module-3	
5	a.	Explain the effects due to climate and temperature.	(08 Marks)
	b.	Explain the cathode protection.	(06 Marks)
	C.	What are the effects due to corrosion? Write the Anode and Cathode reactions.	(06 Marks)
		OR	
6	a.	Explain the corrosion Inhibitors.	(08 Marks)
	b.	Explain the design and construction errors of concrete structures.	(12 Marks)
		Module-4	
7	a.	Discuss the importance of maintenance of structures.	(08 Marks)
1 '	b.	Explain Beam Jacketing Technique, with sketches.	(12 Marks)
		OR	
8	0	Explain externally bonding technique.	(12 Marks)
0	a. b.		(08 Marks)
	U.	That is the process involved in new salates meaning and	
		Module-5	
9		What is carbon fibre reinforced polymer?	(06 Marks)
	b.		(10 Marks)
	C.	What are the properties of Epoxy resins?	(04 Marks)

9	a.	What is carbon fibre reinforced polymer?	(06 Marks)
	b.	Explain the types of special motors.	(10 Marks)
		What are the properties of Epoxy resins?	(04 Marks)

## OR

10	a.	What is Sisal Fibre and write its properties?	(08 Marks)
	b.	What is shoring and under Pinning? Explain its types.	(12 Marks)