## Important Note:

Eighth Semester B.E. Degree Examination, June/July 2025 Rehabilitation and Retrofitting

Time: 3 hrs. Max. Marks: 100

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

1	a.	Module-1  Define Repair, Rehabilitation, Retrofitting, Restoration and preservation of str	ucturae
-	ы.	beine repair, remaintation, retroining, restoration and preservation of str	(10 Marks)
	b.	Explain any five physical causes of deterioration of concrete structures.	(10 Marks)
			(IV Marks)
		OR	
2	a.	Explain any five chemical causes of deterioration of concrete structures.	(10 Marks)
	b.	How to evaluate structural damages to the concrete structural elements due	to earthquake?
			(10 Marks)
		Madula 2	
3	a.	Elaborate CAPO test.  Module-2	4035
5	b.	Discuss about principle and testing of rebound hammer test.	(10 Marks)
	U.	biseuss about principle and testing of rebound nammer test.	(10 Marks)
		OR	
4	a.	Elaborate half cell potential method of carrying out NDT.	(10 Marks)
	b.	Discuss the quality assurance in concrete structures.	(10 Marks)
			(10 1111113)
		Module-3	
5	a.	Discuss design and construction errors.	(10 Marks)
	b.	Recommend in detail the different corrosion protection techniques.	(10 Marks)
6		Discuss corrector mechanism	
U	b.	Discuss the thermal proportion of concrete	(10 Marks)
	U.	Discuss the thermal properties of concrete.	(10 Marks)
		Module-4	
7	a.	List and explain the factors affecting maintenance.	(10 Marks)
	b. ,	Elaborate the restrengthening technique of slab.	(10 Marks)
			(10 1111113)
		OR	
8	a.	Elaborate the restrengthening technique of beam	(10 Marks)
	b.	Elaborate the guidelines for seismic rehabilitation of existing building.	(10 Marks)
9	-	Distinguish between notational and south size St.	
9	a. b.	Distinguish between natural and synthetic fibers.  Explain chemical admixtures.	(10 Marks)
	U.	Explain chefinear admixtures.	(10 Marks)
		OR	
10	a.	Explain foamed concrete and vaccum concrete.	(10 Marks)
	b.	Discuss mortar repair for cracks, shoring and under pinning.	(10 Marks) (10 Marks)
			(20 1.201 103)