No. of Printed Pages: 3

ET-523(C)

B.Tech. Civil (Construction Management) Term-End Examination

00038

June, 2016

ET-523(C): REPAIR AND MAINTENANCE OF BUILDINGS

Time: 3 hours Maximum Marks: 70 Note: Answer any five questions. All questions carry equal marks. 1. Briefly discuss why seasoning of timber is desired. Give a classification of seasoning methods. 7 Describe the method of application of any preservative for timber. 7 Describe the method of application of 2. (a) shotcrete for repairing a concrete column. 7 (b) Briefly discuss the causes of dampness in buildings.

3.	(a)	Describe various types of cracks which	
		normally occur in concrete structures.	7
	(b)	Briefly describe the commonly occurring	
		defects in sewer lines.	7
4.	(a)	Draw neat sketches of cup shakes and star	
		shakes in a timber object.	7
	(b)	Write about any two possible defects in bath	
		fittings. Present a remedy for each in brief,	
		with neat sketches, if required.	7
5.	(a)	Describe any one method of damp proofing	
	(-,	of roofs.	7
	(b)	Discuss the principle of corrosion of steel.	7
6.	(a)	Explain the importance of regular	
		maintenance in buildings.	7
	(b)	Write various causes of deterioration in	
		buildings.	7
7.	Write short notes on each of the following		
	topics: $4\times 3\frac{1}{2}$ =		=14
	(a)	Grade of concrete	
	(b)	Stress – Strain relationship of mild steel	
	(c)	Field tests for structural steel	
	(d)	Rehabilitation of buildings	

- 8. Differentiate between the terms in each of the following cases: $4 \times 3\frac{1}{2} = 14$
 - (a) Seasoning and Preservation of timber
 - (b) Setting and Hardening of concrete
 - (c) Soft wood and Hard wood
 - (d) Passivity and Transpassivity