No. of Printed Pages: 3

ET-523(C)

B.Tech. Civil (Construction Management)

Term-End Examination

December, 2015

00931

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

Ti	me : 3	hours Maximum Marks:	Maximum Marks: 70	
Note: Answer any five questions. All questions equal marks.			carry	
1.	(a)	Show the macro-structure of a tree with a neat sketch.	7	
	(b)	Discuss the qualities which are required from a good preservative for timber.	7	
2.	(a)	Briefly explain how corrosion of steel is checked due to environment provided by concrete in reinforced concrete construction.	7	
	(b)	Give a listing of various precautions which may be taken to reduce dampness in buildings.	7	

3.	(a)	Enlist the names of some defects in timber	
		due to natural forces. Briefly discuss any one of these.	7
	(b)	Discuss some problems which are related with plumbing in buildings. Provide suggestions to deal with them.	7
		D. 11 11	
4.	(a)	Describe the common defects in various types of flooring in buildings.	7
	(b)	How can the bearing capacity of weak soils be improved? Discuss some measures in this respect briefly.	7
5.	(a)	Discuss a strengthening procedure adopted for a cracked RC concrete beam.	7
	(b)	Briefly discuss the various reasons behind the general deterioration of buildings.	7
6.	(a)	What do you understand by 'seasoning of timber'? Discuss any one method for it.	7
	(b)	Discuss the various factors which are considered while repairing fire damaged concrete structures.	7

- 7. Write short notes on the following: $4 \times 3 \frac{1}{2} = 14$
 - (a) Efflorescence
 - (b) Curing of concrete
 - (c) Water-cement ratio in concrete
 - (d) Workability
- 8. Differentiate between the terms given in each of the following: $4 \times 3 \frac{1}{2} = 14$
 - (a) Exogenous and Endogenous trees
 - (b) Cup and Star shakes
 - (c) Superplasticizer and Retarder
 - (d) Bib and Stop-cock