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ET-523(C)

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P.T.O.

## **B.Tech. Civil (Construction Management)**

## 00225 Term-End Examination December, 2014

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

<ul> <li>Note: Attempt any five questions. All questions carrequal marks.</li> <li>1. (a) What are the causes that give rise to various defects in any structure?</li> <li>(b) Explain the procedure for the remedy of dampness/leakage in a structure.</li> <li>(c) Explain the principle of corrosion. What type of measures will you take for the control of corrosion of reinforced steel?</li> <li>2. (a) Explain the structure of a tree with a neat sketch.</li> <li>(b) Describe the defects in timber due to natural forces with the help of a neat sketch.</li> </ul>	Time: 3 hours		hours Maximum Marks:	Maximum Marks : 70	
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	2.	(a)		7	
		(b)		7	

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3.	(a)	Draw the stress and strain diagram for mild steel bar and cold worked deformed bar.	8
	(b)	On what principles does a flushing cistern function? Give a sketch.	6
4.	(a)	Explain the following terms:  (i) Modulus of rupture  (ii) Jointing of PVC pipes  giving a sketch.	6
	(b)	Explain the methods used for cleaning the clogged sewer lines.	8
5.	(a) (b)	What are the various preventive measures that can be taken in brick masonry work?  Discuss in detail the classification of floor finishes.	7
6.	(a)	What are the various causes of failure of foundations? Discuss the related remedial measures.	6
	(b)	Classify the occurrence of cracks in a structure, discussing the causes for the same.	8

7.	Differentiate between any <b>four</b> of the following terms: $4 \times 3 \frac{1}{2} = 14$		
	(a)	Exogenous and Endogenous trees	
	(b)	Cracking and Scaling	
	(c)	Dampness and Leakage	
	(d)	Horizontal and Vertical cracks	
	(e)	Damp proofing technique and Water proofing technique	
8.	(a)	What is a trap? Explain any two types of traps with neat sketches.	7
	(b)	Explain the qualities and requirements of a good preservative.	7