

B.Tech. Civil (Construction Management)

Term-End Examination

00525

December, 2017

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

Time : 3 hours

Maximum Marks : 70

*Note : Attempt any **five** questions. All questions carry equal marks.*

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1. (a) Discuss various measures required to be taken for control of corrosion of steel reinforcement. 7
 - (b) Describe the microstructure of a tree. 7
 2. (a) Discuss the effects of concrete environment on corrosion. 7
 - (b) Briefly describe the defects in plumbing lines. 7
 3. (a) Describe various defects likely to occur in buildings due to improper drainage around them. 7
 - (b) Explain different methods of cleaning clogged sewer line pipes. 7

4. (a) Name the defects in flooring and suggest the precautionary measures to be followed. 7
- (b) What do you mean by efflorescence in masonry work ? Explain various techniques to prevent efflorescence. 7
5. (a) Describe various techniques normally used for repair of cracks in concrete. 7
- (b) Describe in detail about dampness, its causes and prevention methods in a building. 7
6. (a) Classify various types of floor finishes with the help of a block diagram. 7
- (b) Discuss the causes of failure of foundations and the corresponding remedial measures. 7
7. Write short notes on the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Classification of Timber
- (b) Defects in Concrete
- (c) Defects in Masonry Work
- (d) Deterioration
8. Differentiate between the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Natural and Artificial seasoning
- (b) Flanged and Union joints
- (c) Cracking and Scaling
- (d) Dampness and Leakage