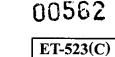
B.Tech. CIVIL (CONSTRUCTION MANAGEMENT) Term-End Examination, 2019 ET-523(C): REPAIR AND MAINTENANCE **OF BUILDINGS** Time: 3 Hours] [Maximum Marks: 70 Note : Answer any five questions. All questions carry equal marks. 1. (a) Explain the importance of singular causes of deterioration in structures. [7] (b) Describe the measures taken to prevent early cracks in concrete. [7] 2. (a) Discuss the defects in timber due to "Fungi". [7] (b) Explain the effects of temperature in steel. [7] 3. (a) Describe the common defects in "Bath Fittings". [7]

(b) Discuss the various methods adopted for preservation of timber. [7] ET-523(C) (1)[P.T.O.]

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- 4. (a) Explain the method of protecting concrete from chloride ions. [7]
 - (b) Describe the common maintenance problems in "Building Plumbing." [7]
- 5. (a) Discuss cracking, scaling, spalling and delamination. [7]
 - (b) Explain the common defects in Flooring. [7].
- 6. (a) Describe various defects in masonry structures.[7]
 - (b) Discuss the causes of dampness in buildings.[7]
- 7. (a) Describe the classification of waterproofing with the help of a systematic diagram. [7]
 - (b) Explain the procedure of repair of fire damaged concrete structures. [7]
- 8. Write short notes on the following : [4x3¹/₂]
 - (a) Cross-section of an Exogenous Tree
 - (b) Cleaning Out Vent Stack

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(c) Efflorescence in Walls

(d) Types of cracks in concrete beam

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