

B. TECH Civil (Construction Management)

Term-End Examination

December, 2013

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

Time : 3 hours

Maximum Marks : 70

Instruction : Attempt any five questions. All questions carry equal marks.

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- (a) "Interactions between singular causes of deterioration in structures are numerous and could greatly accelerate the deterioration". Justify this statement. 7
- (b) Describe the defects in timber due to natural forces. 7
- (a) Describe various causes or situations which favour the early decay of timber. 7
- (b) Explain the manufacturing defects in steel. 7
- (a) Briefly describe the defects in sewer lines. 7
- (b) Explain the various application methods adopted for the preservation of timber. 7

4. (a) Explain the different corrosion control methods.
- (b) Describe the common materials used for a building plumbing.
5. (a) Explain various types of cracks in building.
- (b) Describe various types of floor finishes that are adopted, with the help of a neat sketch.
6. (a) Explain the various strengthening techniques used in masonry works.
- (b) Discuss the various stages at which you have to take precautions to prevent dampness.
7. Write short notes on the following : 4x3½
- (a) Preservation of timber
- (b) Prevention of dampness
- (c) Effects of temperature on steel
- (d) Defects in concrete
8. Differentiate between the following : 4x3½
- (a) Heart and sapwood
- (b) Natural and Artificial seasoning
- (c) Scaling and delamination of concrete
- (d) Water proofing and damp proofing