

B. TECH Civil (Construction Management)

01781

Term-End Examination

December, 2012

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

Time : 3 hours

Maximum Marks :70

*Note : Answer **any five** questions. All questions carry **equal** marks. Give neat sketches in support of your answer wherever required.*

1. (a) What are the causes of defects in buildings ? 7
Explain with suitable sketches.
- (b) How will cracks form in concrete ? Explain 7
with suitable sketches.
2. (a) Write the natural defects in timber giving 7
suitable examples.
- (b) What are the qualities of good timber ? Give 7
examples.
3. (a) What are the different field tests for 7
structured steel ? Explain giving short
details of the tests.
- (b) What are the defects in sanitary fittings 7
explaining their effects in use ?

4. (a) What are the qualities of a good preservative for timber ? Explain how they work ? 7
- (b) What are the different corrosion control methods ? Explain how they work ? 7
5. (a) Explain how failure of foundations occur, giving examples ? 7
- (b) Write and explain the common defects in flooring. 7
6. (a) Explain with short details how can you make a deep well water proof ? 7
- (b) Give the process of repairing the cracks in concrete. 7
7. Explain the following giving examples and suitable sketches : $3\frac{1}{2} \times 4 = 14$
- (a) Electroplating
- (b) Radial shakes
- (c) Salt glazed SW pipes
- (d) DPC of floor.
8. Write short notes on the following : $3\frac{1}{2} \times 4 = 14$
- (a) Efflorescence
- (b) Epoxy coatings
- (c) Sand blasting
- (d) Metallic water proofing.
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