| **ET-523(C)**

B.Tech. Civil (Construction Management)

Term-End Examination

June, 2018

00413

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

Time : 3 hours   *Maximum Marks : 70*

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

1. (a) Describe various causes or situations which favour the early decay of timber.   7

   (b) Discuss various types of repairs required for repairing concrete structures.   7

2. (a) Explain the various field tests conducted for structural steel.   7

   (b) Briefly describe the various defects in bath fittings.   7

3. (a) Explain the procedure of detecting leaks in water supply systems. 7

(b) Describe the recommendations for design and construction of structures subjected to chemical environment. 7

4. (a) Explain the preventive maintenance techniques in brick masonry with neat sketches. 7

(b) Discuss the procedure of diagnosis of defects in concrete flooring. 7

5. (a) Describe the various precautions to be taken at planning and design stages for the prevention of dampness in buildings. 7

(b) Explain the procedure for carrying out repair of RCC structures affected by chemical action. 7

6. (a) Briefly describe the different types of coatings provided for steel. 7

(b) Explain in detail the classification of cracks in building components. 7

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7. Write short notes on the following : $4 \times 3\frac{1}{2} = 14$

   (a) Structure of a tree

   (b) Efflorescence in walls

   (c) Fire resistance of concrete

   (d) Preservation of timber

8. Differentiate between the following : $4 \times 3\frac{1}{2} = 14$

   (a) Heartwood and Sapwood

   (b) Waterproofing and Damp Proofing

   (c) Horizontal Cracks and Vertical Cracks

   (d) Passivity and Transpassivity

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