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B.Tech. Civil (Construction Management)

Term-End Examination

June, 2011

**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 answers wherever required.

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1. (a) What are the qualities of good timber ? 7
Explain.
 - (b) Describe defects due to seasoning. 7
 2. (a) Discuss about manufacturing and 7
construction defects in Bib tap and stop
cock.
 - (b) Enlist various field tests for ascertaining 7
strength of structural steel. Discuss the
significance of any four tests.
 3. (a) Explain in detail about classification of 7
cracks in building components.
 - (b) Discuss corrosion of steel reinforcement due 7
to aggressive marine environment and
preventive measures to be adopted.

4. (a) Describe the causes of defects and deterioration in concrete structures. 7
(b) Explain the different methods of cleaning of clogged sewer line pipes. 7
5. (a) Name the defects in flooring and suggest the precautionary measures to be followed. 7
(b) Explain preventive maintenance techniques in brick masonry with neat sketches. 7
6. (a) Discuss in detail about dampness, its causes and preventive methods, in buildings. 7
(b) Describe briefly the various acceptance tests for selection of bricks. 7
7. Write short notes on the following : **4x3½=14**
(a) Defects in concrete
(b) Qualities and requirement of good preservative
(c) Diagnosis of defects in flooring
(d) Classification of timber
8. Differentiate between the following : **4x3½=14**
(a) Metal spraying and Nickel plating
(b) Natural and artificial seasoning
(c) Polymer impregnation and Polymer concrete overlays
(d) Heart shake and Ring shake
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