ET-523(C)

B.Tech. Civil (Construction Management)

Term-End Examination

June, 2010

01846

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) Discuss various measures required to be taken for control of corrosion of steel reinforcement.   7

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

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

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

3. (a) Describe different methods adopted for preservation of timber.   7

   (b) Explain various methods adopted for excluding the external sources of chloride ion from concrete.   7

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

    (b) Describe various defects likely to occur in buildings due to improper drainage around them.   7

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

    (b) What do you mean by efflorescence in masonry work? Explain various techniques to prevent efflorescence.   7

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

    (b) Describe various techniques normally used for repair of cracks in concrete.   7

7. Write short notes on the following :   4x3½=14
    (a) Size of cracks
    (b) Honey - combed concrete
    (c) Fire resistance of timber
    (d) Classification of defects in masonry work

8. Differentiate between the following :   4x3½=14
    (a) Flanged and Union joint
    (b) Heart and Sap wood
    (c) Free and Bound moisture
    (d) Dampness and Leakage