

B.Tech. Civil (Construction Management)

Term-End Examination

00929

June, 2015

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 the defects in timber due to seasoning. 7
- (b) Explain the effects of the concrete environment on corrosion of reinforcing steel. 7
2. (a) Discuss the defects in concrete. What type of repairs will you suggest for the defective concrete structures ? 8
- (b) Write down the various causes of dampness. 6
3. (a) What are the types of defects in sanitary fittings ? 6

- (b) Which are the preservatives that are commonly used in the process of preservation of timber ? 8
4. (a) What are the methods adopted for excluding the external sources of chloride ion from concrete ? 6
- (b) What are the common materials used for building plumbing ? 8
5. (a) Classify the types of cracks in structures and elaborate. 6
- (b) Under what circumstances will shotcrete be ideal to use ? 4
- (c) What are the defects likely to occur due to improper drainage around buildings ? 4
6. (a) Name the defects in flooring. Discuss the precautionary measures to be followed. 8
- (b) With regard to masonry work, define defects and enlist various sources of defects at different stages in the life of a masonry work. 6

7. (a) What is efflorescence of a masonry wall ?
What are the techniques to deal with
efflorescence ? 8
- (b) What are the different types of
water-proofing techniques ? 6
8. (a) What are the main techniques normally
used for the repair of cracks ? 7
- (b) Explain the different methods of cleaning
out a trap. 7
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