

B.Tech. Civil (Construction Management)

Term-End Examination

00326

June, 2014

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 NDT method for determining the physical conditions of concrete. 7
- (b) Describe the defects in timber due to insects. 7
2. (a) Briefly describe the structure of a tree. 7
- (b) Discuss the three modern theories which explain the effects of chloride ions on steel corrosion. 7
3. (a) Explain the defects in sanitary fittings during manufacturing stages. 7
- (b) Discuss the qualities and requirements of a good preservative. 7

4. (a) Discuss the various remedial measures to rehabilitate the structures affected by corrosion. 7
- (b) Explain the method of cleaning of clogged water supply pipes. 7
5. (a) What do you mean by Deterioration ? Explain in detail. 7
- (b) What do you mean by water proofing ? Discuss various methods of water proofing in brief. 7
6. (a) Discuss the common defects in flooring. 7
- (b) Describe the various reasons of formation of cracks in masonry walls. 7
7. Write short notes on the following : $4 \times 3 \frac{1}{2}$
- (a) Seasoning of timber
- (b) Causes of dampness
- (c) Defects in bathroom fittings
- (d) Fire resistance of concrete
8. Differentiate between the following : $4 \times 3 \frac{1}{2}$
- (a) Dry-rot and Wet-rot
- (b) Dampness and Leakage
- (c) Flanged and Union joint
- (d) Horizontal and Vertical cracks