

**AQ – 2819**

First Semester M. E. Civil Engg. (Const. Engg. and Management) Examination

**BUILDING REPAIR AND MAINTENANCE MANAGEMENT**

Paper – 1 CM 05

P. Pages : 2

Time : Three Hours ]

[ Max. Marks : 80

- Note :** (1) Due credit will be given to neatness and adequate dimensions.  
(2) Illustrate your answer wherever necessary with the help of neat sketches.  
(3) Use of pen Blue/Black ink/refill only for writing the answer book.

1. (a) Explain briefly need for Communication and Information System in Maintenance. 8  
(b) Discuss in brief Property Inspection. 6

**OR**

2. (a) Discuss various factors responsible for process of Deterioration. 8  
(b) Describe various objectives of Maintenance Management. 6
3. (a) Explain steps involved in Systematic Building Repairs. 8  
(b) Explain in brief process of Carbonation. 5

**OR**

4. (a) Discuss in brief 3 main causes of Building Defects. 8  
(b) Discuss causes of defects in Building Foundation. 5
5. (a) Explain importance of compatibility of Repair materials with original construction. 7  
(b) Describe briefly properties of –  
(i) Epoxy. Resins  
(ii) Polyurethanes. 6

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**OR**

6. (a) Describe briefly properties of sealants. 7  
(b) Describe briefly properties of curing compound. 6
7. (a) Explain briefly Epoxy Injection steps for crack repair. 8  
(b) Discuss in brief Dry Pack Technique. 5

**OR**

8. (a) Explain briefly the step involved in preventing corrosion in steel reinforcement. 8  
(b) Discuss in brief Birds Mouth Technique. 5
9. (a) Explain physical method of strip approach to repair DPC. 8  
(b) Explain any one method of Industrial floor joint repair. 6

**OR**

10. (a) Explain repair technique for Basement by Installing Tiebacks. 8  
(b) Write short notes on :  
(i) Latex Emulsion.  
(ii) Polyesters. 6
11. (a) Describe main functions of Joints in Building and List various types of Joints. 8  
(b) What are the common problems in Water Supply and Sanitary System ? 5

**OR**

12. (a) Explain the strengthening technique using Jackets, Brackets and collors. 8  
(b) Discuss in brief about repairs of Underground Water Tank. 5