

FIFTH SEMESTER DIPLOMA EXAMINATION IN CIVIL ENGINEERING  
OCTOBER 2013

BUILDING MAINTENANCE AND SERVICES

Maximum Marks : 100

Time : 3 Hrs

PART – A

[Maximum marks: 10]

- I Answer the following questions in one or two sentences. Each question carries two marks
- |  | Marks     |
|--|-----------|
| 1 Define durability of concrete          |           |
| 2 What is understood by cracks in walls? |           |
| 3 What is galvanic corrosion?            |           |
| 4 What is sullage?                       |           |
| 5 What is soil pipe?                     | [5x2 =10] |

PART - B

[maximum marks : 30]

- II Answer any five of the following questions. Each question carries six marks
- |  |          |
|--|----------|
| 1 Explain volume change in concrete                            |          |
| 2 State chemical grouting and its advantages and disadvantages |          |
| 3 Explain preventive measures against vegetation               |          |
| 4 Name commonly used systems of protective surface coatings    |          |
| 5 Explain the measures taken against falling.                  |          |
| 6 Explain Anti-syphonage pipe                                  |          |
| 7 What are the aims of building drainage                       | [5x6=30] |

PART - C

[maximum marks : 60]

[Answer one full question from each unit. Each question carries 15 marks]

UNIT I

- III What are the factors contributing cracks in concrete [15]  
OR  
IV Explain freezing and thawing action of frost on concrete [15]

UNIT II

- V State the procedure for strengthening foundation if it is found to be inadequate [15]  
OR  
VI Explain the cracks in external and internal walls of load bearing structures. [15]

UNIT III

- VII Explain effects of dampness in wall [15]  
OR  
VIII What are the remedial measures to avoid dampness in floor [15]

UNIT IV

- IX What are the requirements of good drainage system in building [15]  
OR  
X Explain different types of valves used in distribution system [15]

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