

PART – B (5 x 3= 15Marks)

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| 6. | Define cathodic protection. | CO1-U |
| 7. | What are the importance of maintenance? | CO2-U |
| 8. | Compare Silanes/Siloxanes. | CO3-Ana |
| 9. | Write down the disadvantages of shortcrete. | CO4-U |
| 10. | What do you mean by dilapilated structures? | CO5-U |

PART – C (5 x 16= 80Marks)

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| 11. | (a) Explain the various corrosion protection methods. | CO1- U | (16) |
| | Or | | |
| | (b) Write the types of Defects in concrete, Masonry Structures, Plastering and in Steel Structures. | CO1- U | (16) |
| 12. | (a) Explain the steps Carried out in inspection. | CO2- U | (16) |
| | Or | | |
| | (b) An RCC roof slab and a Madras terrace roof, both are under water leakage problem. Suggest suitable remedial measures for both. | CO2- U | (16) |
| 13. | (a) Discuss about chemical admixtures as a repair material. | CO3-U | (16) |
| | Or | | |
| | (b) Explain briefly about SIMCON & its application in retrofitting work. | CO3-U | (16) |
| 14. | (a) Explain with neat sketches about the jacketing techniques for the repair of seismically affected beam-column joint in a building. | CO4 -U | (16) |
| | Or | | |
| | (b) Explain strengthening techniques with external reinforcement. | CO4 -U | (16) |
| 15. | (a) Explain in details the various types of demolition techniques. | CO5- U | (16) |
| | Or | | |
| | (b) Explain the various options for strengthening the concrete with low member strength. | CO5-U | (16) |