

C 1120

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Name.....

Reg. No.....

**SIXTH SEMESTER B.TECH. (ENGINEERING) [09 SCHEME] DEGREE
EXAMINATION, APRIL 2016**

CE/PTCE 09 L03—MAINTENANCE AND REPAIR OF BUILDINGS

Time : Three Hours

Maximum : 70 Marks

Part A

*Answer all questions.
Each question carries 2 marks.*

1. Define Maintenance.
2. Define Repair.
3. What are the causes of distress in structure ?
4. What are the methods of inspection ?
5. What do you mean by recycling of old buildings ?

(5 × 2 = 10 marks)

Part B

*Answer any four questions.
Each question carries 5 marks.*

6. Explain about the effect of environmental elements on buildings.
7. Explain about the underpinning technique with its uses.
8. Describe method of waterproofing of RCC roof.
9. Explain freezing and thawing effects.
10. Write briefly how vegetation and trees results in building crack.
11. Explain about corrosion effects in buildings.

(4 × 5 = 20 marks)

Part C

*Answer all questions.
Each question carries 10 marks.*

12. Explain about the effects of ocean in Marine structures.

Or

13. Explain the defects due to climate, chemicals, wear and erosion.

Turn over

14. Explain the methods of inspection ? Explain any 4 non-destructive test in concrete.

Or

15. Explain the causes of cracks and how to minimize it.

16. Explain about reliability principles and its applications in selection of systems for buildings.

Or

17. Explain the construction of details of steel buildings for fire protection.

18. Give the specification and performance of building materials for RCC buildings.

Or

19. Discuss the methods of repairing old masonry buildings.

(4 × 10 = 40 marks)