



C14-C-604

4719

BOARD DIPLOMA EXAMINATION, (C-14)

JUNE—2019

DCE—SIXTH SEMESTER EXAMINATION CONSTRUCTION

FAILURES, REPAIRS AND MAINTENANCE

Time : 3 hours ]

[ Total Marks : 80

PART—A

3×10=30

**Instructions :** (1) Answer **all** questions.  
(2) Each question carries **three** marks.  
(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Define error and defect.
2. Write a brief note on load transfer failure in foundations.
3. Write a brief note on earthquake affect on foundations.
4. Define geo-membranes.
5. Mention a brief note on spalling of concrete.
6. List out any three types of wall failures.
7. What are the causes of demolition ?
8. What is lightening damage ?
9. What are the causes of dampness ?
10. What are the maintenance problems involved in electrical installations in a building?

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**PART—B**

10×5=50

**Instructions :** (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer

11. Explain the failures in sewers and tunnels, and also remedies to be taken for failures of sewers and tunnels.
12. What are slope failures? Explain type of slope failures.
13. Explain plastering failures and its repairs.
14. (a) Explain about concrete failure due to improper mix design.  
(b) Explain about concrete failure due to surface disintegration.
15. How natural disasters are caused? Explain repairs involved in it.
16. What are the failures involved due to explosion and vibration?
17. Explain the leakproof use of chemicals for RCC roofs.
18. Explain the methods of repairs to canal lining.

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