



**C14-C-604**

**4719**

**BOARD DIPLOMA EXAMINATION, (C-14)**

**OCT/NOV—2018**

**DCE—SIXTH SEMESTER EXAMINATION**

**CONSTRUCTION FAILURES, REPAIRS AND MAINTENANCE**

*Time* : 3 hours ]

[ *Total Marks* : 80

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**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 failure and write any two causes of failure.
2. What are design errors?
3. Define settlement and differential settlement.
4. List out some causes for failure or earthen bunds.
5. What is meant by masonry cladding?
6. Define shrinkage and write the types of concrete shrinkage.
7. What is rain ponding effect?
8. Explain the term alteration collapse.

- \* 9. Define crack and write the types of crack.
10. List the leakproof chemicals for RCC roofs.

**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 terms (a) sheeting in subsurface construction failures, and (b) bracing in subsurface construction failures.  
5+5=10

12. Explain (a) revetment, and (b) pitching in surface construction failure.

13. Explain, in detail, about various types of failure in masonry wall.

14. (a) Explain about handling of precast concrete elements. 5  
(b) Explain the terms expansion and plastic change occurred in concrete. 5

15. How are natural disasters caused? Explain the repairs involved in it.

16. What is deterioration? Write the causes of deterioration in buildings.

\* 17. Explain the methods adopted to prevent dampness in wall.

18. Explain the maintenance problems in plumbing.

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