



c14-c-604

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**BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—2018
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 write the types of error.
2. What are the causes for lateral movement failure?
3. List out some of the causes for failure in earthen bunds.
4. Define geomembranes.
5. List the types of failure in masonry.
6. Define shortcrete and types of shortcrete.
7. What is meant by demolition?

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1

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8. Write a brief ^{*}note on overload in construction.
9. What is meant by waterproofing?
10. What are the measures to be taken for maintenance of sewers?

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 foundation failures with the neat sketches.
12. What is retaining wall? Explain the mode of failure in retaining walls.
13. (a) How is reinforcement placed in concrete? 5
- (b) Explain rusting of embedded steel in concrete. 5
14. Explain in brief about failures due to construction errors and repairs involved in these failures.
15. Distinguish between natural and manmade failures.
16. Explain failures occurs due to fire and lightening damage.
17. What are the types of crack and how to prevent cracks in buildings?
18. Explain about maintenance of roads.
