

4719

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH /APRIL-2019

DCE - SIXTH SEMESTER EXAMINATION

CONSTRUCTION FAILURES, REPAIRS AND MAINTENANCE

Time: 3 Hours]

[Max. Marks: 80

**PART-A****3x10=30M**

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

- 1) List any three errors causing failure of structure.
- 2) State any three common causes for sewer failures.
- 3) Write about foundation failure due to vibration.
- 4) Define Subsidence and write about subsidence of retaining wall.
- 5) State the importance of mix design.
- 6) Write about masonry cladding.
- 7) What is overload in the building?
- 8) Write the benefits of project supervision
- 9) List the causes of cracking
- 10) State any three maintenance problems in canals.

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## PART-B

**5x10=50M**

- Instructions:** 1) Answer any **five** questions. Each question carries **ten** marks.  
2) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 11) Write short notes on. 5+5  
a) Sheeting and Bracing      b) Piles and Caissons
- 12) Explain failures in earthen bunds and their control measures.
- 13) Explain in detail about various types of failures in masonry.
- 14) Explain the following Concrete Failures. 5+5  
a) Due to Spalling      b) Due to Fire
- 15) Discuss the preventive measures to avoid damage due to. 5+5  
a) Heavy rain      b) Lightening
- 16) Discuss hazards due to demolition and deterioration.
- 17) Explain the methods of maintenance of roads.
- 18) Explain the methods of solving dampness in a building.

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