



C14-C-604

4713

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH / APRIL - 2019

DCE - VI SEMESTER EXAMINATION

CONSTRUCTION FAILURES, REPAIRS & MAINTENANCE

Time : 3 Hours]

[Total Marks : 80

PART - A

3×10=30

Instructions :

- (1) Answer **ALL** questions.
- (2) Each question carries **THREE** marks.
- (3) Answer should be brief and straight to the point and shall not exceed five simple sentences.

- 1 Write any three causes of defects in construction.
- 2 Mention three causes of failures involved in cassions.
- 3 How does vibration effect the building ?
- 4 Write six modes of failures in retaining walls.
- 5 What are the stages involved in repair of concrete structures ?
- 6 Define grouting.
- 7 Mention any six causes of deterioration in buildings.
- 8 List any six man-made disasters.
- 9 State any three objectives of maintenance.
- 10 List any six methods of solving dampness.

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[Contd...

PART - B

10×5=50

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

- 11 Explain the method of repairing cracks by bonding with epoxies.
- 12 Define geomembrane, Write its four advantages and six applications.
- 13 Write any ten causes for the failure of concrete.
- 14 Explain the factors affecting cracking of concrete and its remedies.
- 15 Explain about demolition and overload.
- 16 Write short note on : (a) lightning damage (b) Rain ponding effect.
- 17 Write any ten defects involved in dampness in buildings.
- 18 List five problems created by roof leaks and mention any five solutions to overcome the problem of roof leaking.
