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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. Mention the types of errors causing failure.
2. Write short note on the load transfer failure.
3. Write about the failure in dams briefly.
4. List any three modes of failure in retaining walls.
5. What is meant by spalling of concrete?
6. Explain the term 'construction error'.
7. List the man-made disasters.
8. List out the causes of deterioration in building.

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9. List the methods used to solve the problem of leaking of RCC structures.
10. List the causes of building cracks.

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 repairs involved in rectifying the sheeting and bracing failure.
12. (a) Explain about the retaining walls.
(b) Explain the repairs involved in retaining walls.
13. Explain about any four concrete failures.
14. Explain about any four types of shrinkages in concrete.
15. Explain the following terms keeping in view of failures and repairs of structures :
- (a) Alteration collapse
(b) Fire
(c) Collision
(d) Explosion and vibration
16. Describe the failures due to ignorance and negligence.
17. Explain the methods of damp proofing in building.
18. Explain the methods of repairs to canal lining.

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