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**BOARD DIPLOMA EXAMINATION, (C-14)
OCTOBER/NOVEMBER-2018
DCE-SIXTH SEMESTER EXAMINATION**

CONSTRUCTION FAILURES, REPAIRS & MAINTENANCE

Time : 3 Hours]

[Total Marks: 80

PART-A

3X10=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 short notes on different types of errors, causing failures in construction.
2. How does earthquake effect the building?
3. Write short notes on 'Guniting'.
- * 4. What are surface construction failures?
5. What is 'Spalling' of concrete?
6. Mention different types of failures in Masonry.
7. What are Man-made failures?
8. What is overload on the building?
9. List out any six defects in the building.
10. What are the causes for building-cracks?

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PART-B

10X5=50

- Instructions* : *
1. Answer any **Five** questions, choosing at least one from each section.
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 below sub-surface construction failures.

(a) Load transfer failure (b) Differential settlement & settlement (c) Design error.

12. Explain briefly about 'Earthen Bunds' and the failures caused in them.

13. Explain the below types of failures in Concrete.

(a) Improper mix design (b) Curing (c) Handling of Precast elements (d) Erection difficulty.

14. Explain about 'wall failure' and 'construction error' in Masonry.

15. Explain 'Demolition' and 'Deterioration' in building?

16. What are 'Natural Disasters' explain in detail.

17. Explain the methods of solving dampness problems in buildings?

18. Explain the methods of 'Maintenance of Roads'

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