



c09-c-606C

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BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL—2018

DCE—SIXTH SEMESTER EXAMINATION

MAINTENANCE OF BUILDINGS

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 maintenance. Why is maintenance necessary for buildings? 1½+1½=3

* 2. What are different types of crack baed on crack direction? 1×3=3

3. Write any four defects in buildings. ¾×4=3

4. State any four situations in which under-pinning is adapted. ¾×4=3

5. Why is rehabilitation of buildings necessary?

6. Write a short note on shotcrete.

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7. List the IS ^{*} code recommendations for controlling shrinkage cracks.
8. What is the use of flush valve?
9. Explain earthing.
10. What is departmental execution of maintenance works

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 preventive maintenance and remedial maintenance. 5+5=10
12. (a) Give the classification of detailed investigations carried out the finding defects in buildings. 4
(b) Explain non-destructive tests. 6
13. (a) What are the different types of heavy earth-moving machinery (HEMM)? 5
(b) List the factors considered in selecting a suitable HEMM. 5
14. Explain any two foundation failures with remedial measures. 5+5=10
15. Explain the methods for weather proofing on roof slab.
16. Explain the maintenance of concrete floors and terrazzo floors. 5+5=10
17. Explain the maintenance of septic tank and soak pit. 5+5=10
18. Explain the procedure of carrying out maintenance works through contract agency.
