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BOARD DIPLOMA EXAMINATION, (C-09)

APRIL/MAY—2015

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. State any three causes which necessitate the maintenance of buildings. 1×3=3

2. List out any six common defects in building. ½×6=3

3. List any three principal causes of occurrence of cracks in buildings. 1×3=3

4. Define the term 'rehabilitation'. 3

5. State any three precautions to be taken prior to the demolition of structures. 1×3=3

6. What are different types of damp proofing? 3

- * 7. State various stains formed on floors. 3
8. What are the precautions to be taken to prevent clogging of drains? 3
9. List six precautions to be taken in maintaining electrical installations. $\frac{1}{2} \times 6 = 3$
10. What is meant by standard measurement book? 3

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. (a) List the causes for deterioration of building. 5
 (b) Distinguish between annual maintenance and special maintenance. 5
12. (a) List the basic equipments required for investigating, defects in buildings. 5
 (b) State the classification of cracks. 5
13. Explain the demolition process of trusses and girders. 5+5=10
14. Explain the failure of the foundations due to (a) lateral movement, and (b) unequal support. State the preventive methods. 5+5=10
15. (a) Mention the classification of cracks based on width as per SP : 25–1984. 5
 (b) Explain the methods of removal of stains from floors. 5

- * **16.** (a) What are the external and internal forces responsible for development of cracks? 5
- (b) Explain the cracking effect due to vegetation. 5
- 17.** Explain the maintenance of septic tank and soak pits. 6+4=10
- 18.** Explain the importance of measurements in the works execution and various record books involved. 10

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