



c09-c-606C

3727

BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL—2016

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 objectives of maintenance of buildings.
2. State the classification of cracks.
3. List the basic equipment for investigating defects.
4. List any three foundation failures and their remedial measures.
5. State safety aspects while demolition of buildings.
6. List the causes of cracks.
7. Explain the settlement of floor.

8. Write the checklist for inspection of internal wiring.
9. Explain with neat sketch about the remedial measures of slip joint.
10. Explain in brief about piecework contract.

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 factors affecting durability of building.
12. Give the remedial measures for any six common defects in buildings.
13. (a) Explain about demolition of trusses, girders and beams.
(b) State any four types of heavy earth moving machines with their uses. 5+5=10
14. Explain in detail about underpinning and their methods.
15. List cracks in walls and explain about causes and prevention.
16. (a) Explain about spalling of concrete.
(b) Explain about repairs of roofs by grouting with micro-concrete and by application of anticorrosive paints. 5+5=10
17. Explain about plumbing problems in water supply and sanitary lines with solutions.
18. (a) Write the inspection proforma for maintenance work.
(b) Write a brief note about 'tender notice'. 7+3=10

★ ★ ★

*

*