



c09-c-606 C

3727

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2014

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 the objectives of building maintenance. 3
2. Define the term 'durability' of building. 3
3. What are the observations while investigating cracks? 3
4. State different types of the failures of foundations. 3
5. State the situation under which underpinning is adopted? 3
6. State the causes for the decay of timber members. 3
7. How do you re-polish the worn-out floors? 3
8. What precautions are to be taken for preventing leakage in pipe joints? 3

- * 9. List out any six earth-moving equipments. ½×6
10. What are particulars to be given in a tender notice. 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. Explain various factors affecting the durability of building materials. 5×2
12. What are the methods for investigation of defects in buildings? Suggest remedies for defects. 5+5
13. Discuss about the demolition of walls and floors in the structures. 5+5
14. Explain the failure of foundations due to—
 (a) drag down and heave;
 (b) flotation and water carriage.
 Suggest suitable prevention methods. 5+5
15. (a) What are various measures to control shrinkage cracks as per IS : 25-1984?
 (b) Briefly explain about settlement of floors and repairs. 5+5
16. Explain the cavity method of damp-proofing with neat diagrams. 6+4
- * 17. List and explain about plumbing problems for water supply and sanitary lines. 5+5
18. List out types of contracts. Explain any two. 4+3+3
