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**3727**

**BOARD DIPLOMA EXAMINATION, (C-09)  
SEPTEMBER/OCTOBER - 2020  
DCE—SIXTH SEMESTER EXAMINATION**

**MAINTENANCE OF BUILDINGS**

*Time : 3 hours ]*

*[ Total Marks : 80*

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**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. Explain the term 'maintenance of buildings'.
2. List any six defects that are covered under annual repairs of buildings.
3. List the basic equipment required for investigation of defects in buildings.
4. What is the necessity for demolition of buildings?
5. What are the various methods of underpinning?
6. List any four waterproofing chemicals.
7. Explain nest treatment of timber.

- \* 8. Explain the term 'earthing' in electrical services of a building.
9. List the common defects in the sanitary layout.
10. Write a short note on 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. List out the factors affecting durability of building materials.
12. Explain in detail various causes for formation of cracks in buildings.
13. What are the various safety aspects to be considered in HEMM operations?
14. Explain the failure of foundations and remedial measures to be taken due to (a) lateral failure and (b) unequal supports. 5+5=10
15. (a) Give the classification of cracks as per SP 25–1984. 4  
(b) Briefly explain the method of shotcrete. 6
16. Mention the causes, prevention and solution for (a) spalling of concrete and (b) honeycombing in concrete. 5+5=10

- \* 17. Explain in detail the maintenance of soak pik and septic tank.
18. What are the various details that a tender document should contain?

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