



C14-C-305

4224

**BOARD DIPLOMA EXAMINATION, (C-14)
OCTOBER/NOVEMBER-2018
DCE-THIRD SEMESTER EXAMINATION**

CONSTRUCTION MATERIALS

Time : 3 Hours]

[Total Marks: 80

PART-A

3X10=30

- Instructions :**
1. Answer **All** questions.
 2. Each question carries **THREE** marks
 3. Answer should be brief and straight to the point

1. State physical classification of rocks with one example for each.
2. What is frog? What purpose does it serve.
3. Give three uses of stoneware pipes.
4. Write three characteristics of goods tiles.
5. Write the chemical composition of OPC (Ordinary Portland Cement).
6. Define Mortar and list types of mortar.
7. List four properties of reinforced cement concrete.
8. Write uses of French polish.
9. List any three objective of surface protective material.
10. Write any two names of timber and their uses.

PART-B

10X5=50

- Instructions* :
1. Answer any **five** questions.
 2. Each question carries **ten** marks.
 3. Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer
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11. Explain the properties and uses (a) Granite (b) Marble (c) Cuddapah slab.
 12. Explain the experimental procedure for determining compressive strength and water absorption of bricks as per IS specifications.
 13. (a) Briefly explain bulking of sand.
(b) Write any six characteristics of good sand.
 14. Explain dry process of manufacturing of cement.
 15. Briefly explain about RMC (Ready Mix Concrete) and its advantages.
 16. Write about any four admixtures.
 17. Write about the ingredients of paints.
 18. Write any eight characteristics of timber.
