



c14-c-305

4229

**BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—2017
DCE—THIRD SEMESTER EXAMINATION
CONSTRUCTION MATERIALS**

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 difference between stratified rocks and foliated rocks. 1½+1½=3
2. Name the classification of bricks as per ISI. 3
3. State different substitute materials for sand. 3
4. State the uses of stoneware pipes. 3
5. State any four uses of cement. 3
6. State the ingredients of concrete and give their functions. 1½+1½=3
7. What is meant by 'curing of concrete'? State its need. 1½+1½=3

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1

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8. What are French polish and Wax polish? 1½+1½=3
9. Define the following terms : 1½+1½=3
- (a) Glass
- (b) Asbestos
10. State any three advantages of air seasoning. 1+1+1=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. Describe the following methods of surface finishes with neat sketches : 3+4+3=10
- (a) Rough-tooled surface
- (b) Tooled surface
- (c) Polished surface
12. (a) List various tests to be conducted on bricks.
- (b) Explain any two standard tests on bricks. 4+6=10
13. Explain briefly about the following wall tiles : 5+5=10
- (a) Ceramic tiles
- (b) Vitrified tiles
14. Write short notes on the following : 5+5=10
- (a) Quick-setting cement
- (b) White cement

15. Describe the ^{*}method of preparing cement mortar by hand mixing and machine mixing. 5+5=10
16. (a) State any five factors effecting 'water-cement ratio'.
(b) Explain briefly about reinforced cement concrete. 5+5=10
17. State the properties and the uses of the following : 5+5=10
(a) Enamel paints
(b) Water paints
18. What is fiber-reinforced plastic? Explain its application in building industry. 10

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