



c16-c-305

6226

BOARD DIPLOMA EXAMINATION, (C-16)

MARCH/APRIL—2018

DCE—THIRD SEMESTER EXAMINATION

CONSTRUCTION MATERIALS

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. State the physical classification of rocks.
2. State any three characteristics of good bricks.
3. State any three important functions of sand.
4. List the uses of stoneware pipe.
5. State any six types of cements.
6. List the different types of mortar and give one use for each of them.
7. Define water-cement ratio.
8. State any six types of paints.

- \* 9. State the functions of paints.
10. What is asbestos? State four uses of asbestos.

**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. (a) State any five characteristics of good building stone.  
(b) Explain the purpose of dressing of stone. 5+5
12. Explain the different stages involved in preparing the brick of earth. 10
13. (a) Explain the process of manufacturing stoneware pipe.  
(b) What are the uses of stoneware pipes? 5+5
14. Briefly explain about the following tests : 3+3+4  
(a) Normal consistency of cement  
(b) Initial setting time of cement  
(c) Final setting time of cement
15. Describe the method of preparing cement mortar. 10
16. Define admixtures. Explain briefly the different types of admixtures used in cement concrete and mention their purposes. 10
17. (a) Define seasoning.  
(b) State advantages of natural seasoning of wood. 5+5
18. Explain briefly the different types of glass with uses. 10

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