

4229

**BOARD DIPLOMA EXAMINATION, (C-14)  
MARCH /APRIL-2019  
DCE - THIRD SEMESTER EXAMINATION**

CONSTRUCTION MATERIALS

Time:3 Hours

Max. Marks:80

**PART-A**

**10x3=30M**

**Instructions:** 1) Answer all questions. Each question carries three marks.  
2) Answers should be brief and straight to the point and shall not exceed five simple Sentences.

1. List any three common varieties of stones and their usage.
2. State the tests to be performed on a brick as per Indians Standardds.
3. Mention the uses of Stoneware Pipes.
4. State the need for the quarry dust as substitute of sand.
5. What is the importance of blended cement?
6. Differentiate Fine-aggregate and Coarse-aggregate.
7. List the ingredients of Reinforced Cement Concrete.
8. What are the functions of a base in paint?
9. State merits and demerits of plastics.
10. What are the uses of Fiber glass?

**PART-B**

**5x10=50M**

- Instructions:** 1) Answer any five questions. Each question carries ten marks.  
2) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. (a) State any five important characteristics of good building stone. 5  
(b) List any five advantages of dressing of stones. 5
12. (a) List any four advantages of fly-ash bricks. 4  
(b) Explain the procedure of burning of bricks in Hoffman's Kiln 6
13. (a) Explain bulking of sand. 4  
(b) Explain (i) Glazed tiles (ii) Porcelan tiles. 6
14. (a) State the chemical composition of Ordinary Portland Cement. 4  
(b) Explain soundness test on cement. 6
15. (a) Write about classification of concrete. 5  
(b) Explain the method of preparation of concrete by machine mixing.
16. (a) What is the need for curing of concrete. 4  
(b) Describe any two methods of curing. 6
17. (a) Write a short note on Distempers. 4  
(b) What is a varnish? List out it's uses. 3+3
18. (a) State the characteristics of good timber. 5  
(b) Explain the importance of seasoning timber. 5

\* \* \*