



C09-C-306

3222

BOARD DIPLOMA EXAMINATION, (C-09)  
OCT / NOV-2015  
DCE - THIRD SEMESTER EXAMINATION  
CONSTRUCTION MATERIALS

Time : 3 hours ]

[ Total Marks : 80

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PART - A

3 X 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 physical classification of rocks and also give an example for each.
2. State the use of refractory bricks. Mention the main varieties of refractory bricks.
3. State three characteristics of good sand.
4. State one property and two uses of quick-setting cement.
5. State the ingredients of concrete and give their functions.
6. Define water-cement ratio. State two factors affecting water cement ratio.
7. State the ingredients of paint.
8. State any three types of varnishes.
9. What is Geosynthetics? Mention the types of Geosynthetics.
10. Name the common varieties of timber used in A.P. for civil engineering works.

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**PART - B**

10 X 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. Explain briefly the characteristics of good building stone.
12. (a) List various tests to be conducted on bricks.  
(b) Explain any two standard tests on bricks.
13. Write the uses of the following tiles.  
(a) Porcelain tiles    (b) glazed tiles    (c) floor tiles.
14. Explain briefly about blended cement and mention the types of blended cement.
15. List any five admixtures of concrete and state their uses.
16. Explain the procedure involved in hand mixing and machine mixing of cement concrete.
17. Write short notes on the following :  
(a) French polish  
(b) Wax polish  
(c) Distempers
18. Explain briefly about the different types of glass with uses.

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