



**c14-c-305**

**4229**

**BOARD DIPLOMA EXAMINATION, (C-14)  
SEPTEMBER/OCTOBER - 2020  
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 difference between stratified rocks and foliated rocks.
2. State any four characteristics of good bricks.
3. State four characteristics of good tiles.
4. What are the functions of sand?
5. Write a short note on blended cement.
6. List four benefits of curing of concrete.
7. Write four advantages of reinforced cement concrete.
8. List the uses of varnish.

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9. State four <sup>\*</sup> properties of glass.
10. List four uses of fibre reinforced plastic.

**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. Explain the classification of rocks with one example for each.
12. Describe in detail the test procedure for finding compressive strength of bricks.
13. Write the characteristics of good sand.
14. Explain the fineness test on cement.
15. Explain five types of admixtures.
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16. Describe different methods of curing the concrete.
17. What is varnish? Briefly explain the composition of varnish.
18. Define the term seasoning of timber and write the objectives of seasoning of timber.

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