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C14-C-305

4229

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL—2021

DCE - THIRD SEMESTER EXAMINATION

CONSTRUCTION MATERIALS

Time : 3 hours ]

[ Total Marks : 80

**PART—A**

4×5=20

- Instructions :** (1) Answer *any five* questions.  
(2) Each question carries **four** marks.  
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. List the uses of granite stones.
2. Name the classification of bricks as per I. S. I.
3. Write any four characteristics of good tile.
4. Define bulking of sand.
5. Define the following terms :
  - (a) Initial setting time of cement
  - (b) Final setting time of cement
6. Define the term concrete and list the ingredients in concrete.
7. Differentiate between fine aggregate and coarse aggregate.

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8. State any four types of paints.
9. List any four characteristics of good timber.
10. State any two types of wood products used in construction work.

## PART—B

15×4=60

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

11. (a) List any five characteristics of good building stone.  
(b) State any five uses of marble.
12. List the various tests to be conducted on bricks and explain any one test.
13. Explain the need for quarry dust and Robo sand as a substitute to sand.
14. Explain fineness of cement test.
15. Briefly explain water cement ratio and workability.
16. List the advantages and disadvantages of ready mix concrete.
17. (a) List any five uses of surface protective materials.  
(b) Explain the importance of seasoning of timber.
18. List out various types of materials used for constructing a building.

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