



**C14-C-305**

**4229**

**BOARD DIPLOMA EXAMINATION, (C-14)  
MARCH/APRIL—2016  
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. Define the term 'dressing of stones'. Write any two advantages of it.
2. State three uses of refractory bricks.
3. What are the requirements of floor tiles?
4. Define bulking of sand.
5. What is meant by hydration of cement?
6. Define the term 'mortar'. List different types of mortar.
7. What is distemper? What are its properties?
8. State the advantages of ready mix concrete.
9. State any six types of glass.
10. What is meant by veneering? Write any three uses of veneers.

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**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 ten characteristics of a good building stone.
- 12.** (a) Explain about water absorption test of bricks.  
(b) Explain any one method of moulding of bricks.
- 13.** (a) How does soft porcelain differ from hard porcelain?  
(b) Write any six characteristics of good sand.
- 14.** Describe the method of manufacturing of cement by dry process.
- 15.** Define the term 'water-cement ratio'. Explain briefly the tests on workability of concrete.
- 16.** (a) State any four situations where retarders are used.  
(b) Write any six advantages of Ready Mix Concrete.
- 17.** Explain about (a) enamel paints and (b) varnish.
- 18.** What is fiber-reinforced plastic? Briefly explain its applications in building industry.

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