



**c14-c-305**

**4229**

**BOARD DIPLOMA EXAMINATION, (C-14)**  
**OCT/NOV—2015**  
**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. List uses of granite stones.
2. Name the classification of bricks as per ISI.
3. Write any six characteristics of good tiles.
4. What are the functions of sand?
5. Define the terms (a) initial set, (b) final set and (c) hardening of cement.
6. Define the term concrete. State its ingredients.
7. Define the term admixture. Name any four types of admixtures.

- \* 8. List the uses of varnish.
- 9. State three objectives of seasoning of timber.
- 10. Write any six properties of asbestos.

**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. (a) Explain the purpose of dressing of stones.  
(b) Explain any two methods of surface finish of stones.
- 12. Describe the method of burning of bricks in Hoffman's kiln.
- 13. (a) Mention the uses of the following :
  - (i) Glazed tiles
  - (ii) Floor tiles(b) Explain how stone powder is used as a substitute for sand.
- 14. (a) Explain initial setting time of cement.  
(b) Explain about quick setting cement.
- 15. What is curing? Describe any two methods of curing.
- 16. State the importance and applications of fly ash and quarry dust.
- 17. Describe briefly the constituents of paints.
- 18. Write short notes on :
  - (a) Particle boards
  - (b) Float glass
  - (c) Structural glass

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