



c16-c-305

6226

BOARD DIPLOMA EXAMINATION, (C-16)

OCT/NOV—2017

DCE—THIRD SEMESTER EXAMINATION

CONSTRUCTION MATERIALS

Time : 3 hours ]

[ Total Marks : 80

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'.

2. State any three uses of refractory bricks.

3. List the characteristics of good tiles.

4. State the common varieties of tiles used for different purposes.

5. List any six types of cement.

6. Define (a) water cement ratio and (b) curing.

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7. State the ingredients of (a) plain cement concrete and (b) reinforced cement concrete.
8. State the composition of paints.
9. Write the uses of French polish.
10. List any six common varieties of timber used for different items of work.

**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) List the uses of the following types of stones :

(i) Granite

(ii) Marble

(b) State any five purposes of dressing of stones.

12. Explain any five characteristics of good bricks.

13. (a) What are the functions of sand?

(b) Explain how stone powder is a substitute for sand.

14. Explain briefly the consistency test conducted on cement.

15. Explain the method of mixing cement mortar by machine mixing.

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- 16.** Define admixture. Write short notes about (a) plasticizers and (b) super plasticizers.
- 17.** What is fibre reinforced plastic? State its application in building industry.
- 18.** State the uses of the following :
- (a) Veneer
  - (b) Plywood
  - (c) Straw board
  - (d) Laminated board

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