



c09-c-306

**3222**

**BOARD DIPLOMA EXAMINATION, (C-09)**

**MARCH/APRIL—2017**

**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) Answer 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 the use of refractory bricks. Mention the main varieties of refractory bricks.
3. Define bulking of sand.
4. State any four uses of cement.
5. Describe the preparation of cement mortar.
6. Define 'mortar'. How are mortars classified?
7. List the uses of varnish.
8. State three uses of enamel.
9. State any three characteristics of good timber.
10. What is geosynthetics? Mention the types of geosynthetics.

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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. List any six properties and four uses of granite stone.
12. Explain 'water-absorption test' and 'compressive strength test' on bricks.
13. Explain briefly about the following wall tiles :
- (a) Ceramic tiles  
(b) Vitrified tiles
14. State the importance and the application of Portland puzzolano cement.
15. Explain the procedure of mixing, conveyance, placing, compacting and curing of concrete.
16. List the types and uses of admixtures used in concrete.
17. (a) State and explain the ingredients of a paint.  
(b) Write the uses of paint.
18. What is 'plywood'? List the uses of plywood.

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