



c09-c-306

**3222**

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

**MARCH/APRIL—2016**

**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) Answer should be brief and straight to the point and shall not exceed *five* simple sentences.

1. State the physical classification of rocks with one example for each.
2. State the use of refractory bricks. Mention the main varieties of refractory bricks.
3. State any four characteristics of good sand.
4. State any three tests for OPC.
5. Define the term 'concrete'. State its ingredients.
6. List different types of mortar and give one use for each of them.
7. State any three types of varnish.
8. State three uses of enamel.
9. State three uses of ecoboards.
10. What is geosynthetic? Mention the types of geosynthetic.

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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.** (a) List any three properties and two uses of marble.  
(b) List any three properties and two uses of Cuddapah slabs.
- 12.** Explain 'water-absorption test' and 'compressive strength test' on bricks.
- 13.** (a) Mention different types of tiles with their uses.  
(b) State any five characteristics of good tiles.
- 14.** Draw the flow diagram of cement manufacture by dry process.
- 15.** Explain about ready mix concrete. Write any four advantages of it.
- 16.** Explain briefly about placing and compaction of concrete.
- 17.** (a) State and explain the ingredients of a paint.  
(b) Write the uses of paint.
- 18.** (a) Define 'seasoning of timber'. State four objectives of seasoning of timber.  
(b) State any five characteristics of good timber.

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