



c09-c-306

3222

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—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 one property and one use for each of the following stones :

(a) Marble

(b) Cuddapah slabs

(c) Shahabad stones

2. Write the standard size of brick as per specifications.

3. Write a short note on bulking of sand.

4. Define the terms of the following :

(a) Initial setting time of cement

(b) Final setting time of cement

5. State the usual proportions of cement mortar for any three civil engineering works.

6. State the difference between plain cement concrete and reinforced cement concrete.

7. State three uses of Enamel.

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8. List the uses of varnish.
9. List three uses of veneers.
10. State four characteristics of good timber.

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 physical classification of rocks and give an example for each.
(b) State any five characteristics of good building stone.
12. Explain briefly about the following wall tiles :
(a) Ceramic tiles
(b) Vitrified tiles
13. What are 'Fly Ash Bricks'? State any five advantages of using fly ash bricks.
14. Write short notes on the following :
(a) Quick setting cement
(b) White cement
- * 15. Explain ready mix concrete. Write any four advantages of it.
16. Explain the procedure of mixing, conveyance, placing, compacting and curing of concrete.
17. (a) State and explain the ingredients of a paint.
(b) Write the uses of paint.
18. (a) State five uses of gypsum.
(b) State five uses of asbestos
