

BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2016

DCE—THIRD SEMESTER EXAMINATION

CONSTRUCTION MATERIALS

Time : 3 hours |

| Total

PART—A

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

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

1. List the properties of granite.
2. Explain about refractory bricks.
3. Write a short note on bulking of sand.
4. List various types of tiles.
5. What is meant by hydration of cement?
6. Distinguish between fine and coarse aggregates.
7. State the ingredients of concrete and give any two

8. Give the composition of varnish.
9. Write different uses of asbestos.
10. Define the term 'veneer' and state any two uses of it.

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. Explain briefly about the characteristics of good building stone. 10
12. Explain about the compressive strength and water absorption tests on bricks. 5+5
13. (a) List the characteristics of good tiles.
(b) Write the uses of (i) porcelain tiles, (ii) glazed ware tiles and (iii) floor tiles. 5+5
14. Explain the method of manufacturing of cement by dry process. 10
15. Explain the method of preparing cement mortar by hand mixing and machine mixing. 10
16. Explain ready mix concrete. Write any five advantages of it. 3+7
17. State the properties and uses of (a) enamel paint and (b) distempers. 5+5
18. Define the term 'seasoning of timber' and write the main objects of. 2+8

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