



c09-c-306

3222

BOARD DIPLOMA EXAMINATION, (C-09)

SEPTEMBER/OCTOBER - 2020

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. List any three uses of granite stones.
2. Name the classification of bricks as per ISI.
3. State any three characteristics of good sand.
4. State the uses of white cement.
5. State the ingredients of (a) plain cement concrete and (b) reinforced cement concrete.
6. Differentiate between fine aggregate and course aggregate.
7. State three uses of enamel paint.
8. List the uses of varnish.
9. What is geosynthetics? Mention the types of geosynthetics.
10. State any three uses of eco-boards.

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[Contd...

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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.** State any ten characteristics of good building stone.
- 12.** (a) State any four characteristics of good tiles.
(b) State any three uses of glazed tiles.
(c) State any three uses of refractory bricks.
- 13.** (a) State any six characteristics of good bricks. 6
(b) Define stoneware. State any two uses of stoneware pipes. 2+2
- 14.** Describe any two tests on cement.
- 15.** Explain ready-mix concrete and write any three advantages of it. 7+3
- 16.** Explain the procedure of mixing, conveyance, placing, compacting and curing of concrete.
- 17.** What is varnish? Explain about different varnishes.
- 18.** (a) What is plywood? List any three uses of plywood. 5
(b) State any five uses of gypsum. 5
