



c09-c-306

3222

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2018

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

1. State physical classification of rocks and also give an example for each.
2. State any three purposes of glazing of tiles.
3. State any four characteristics of good sand.
4. State one property and two uses of quick setting cement.
5. Write a short note on microconcrete.
6. State the difference between plain cement concrete and reinforced cement concrete.
7. State three uses of paint.

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8. List the uses of varnish.
9. State any three characteristics of good timber.
10. State three uses of eco-boards.

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. What are fly ash bricks? State any five advantages of using fly ash bricks.
14. Briefly explain about the following tests :
- (a) Normal consistency of cement
 - (b) Initial setting time of cement
 - (c) Final setting time of cement
15. Describe briefly the method of preparing cement mortar by both the methods.
- * 16. Explain the procedure of mixing, conveyance, placing, compacting and curing of concrete.
17. State the properties and the uses of the following
- (a) Enamel paints
 - (b) Water paints
18. (a) State five uses of gypsum
(b) State five uses of asbestos
