



c09-c-306

3222

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2017

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) Granite

(b) Guddapah slabs

(c) Shahabad stones

2. List various operations involved in the process of manufacture of bricks.

3. State the different substitute materials for sand.

4. State any four uses of cement.

5. List different types of mortars and give one use for each of them.

6. State the ingredients of concrete and give their functions.

- * 7. State three uses of paint.
8. State any three types of varnishes.
9. Name the common varieties of timber used in AP for civil engineering works.
10. Write any three situations where Gypsum wall plasters are used.

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 given an example for each.
- (b) State any five characteristics of good building stone.
12. (a) Mention the different types of tiles with their uses.
- (b) State any five characteristics of good tiles.
13. What are 'Fly Ash Bricks'? State any five advantages of using fly ash bricks.
14. Explain briefly about blended cement and mention the types of blended cement.
- * 15. What are the different steps involved in concreting. Explain any two.
16. Explain ready mix concrete. Write any four advantage of it.

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17. Write short notes on each of the following :

(a) French polish

(b) Wax polish

(c) Distempers

18. Explain briefly about the uses of the following wood products :

(a) Ply wood

(b) Particle board

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