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C09-C-306

3222

BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL—2021

DCE - THIRD SEMESTER EXAMINATION

CONSTRUCTION MATERIALS

Time : 3 hours]

[Total Marks : 80

PART—A

4×5=20

- Instructions :** (1) Answer *any five* questions.
(2) Each question carries **four** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. List any two common varieties of stones used in construction.
2. Write the standard common size of bricks as per IS specifications.
3. State the characteristics of good sand.
4. Write the classification of cements.
5. State the ingredients of RCC.
6. List out the uses of admixtures in concrete.
7. Name any four characteristics of good paint.
8. State the purpose of seasoning of the timber.
9. List out any four types of paints.
10. Write any four uses of plastics in building.

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PART—B

15×4=60

- Instructions :** (1) Answer *any four* questions.
(2) Each question carries **fifteen** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Explain the properties and uses of the following :
 - (a) Ogranite
 - (b) Marble
 - (c) Kadapa slab
12. States the characteristics of good bricks.
13. List out the uses of (a) fly ash bricks and (b) hollow concrete bricks.
14. Explain manufacturing of cement by dry process.
15. Explain the method of preparation of cement mortar.
16. Briefly explain (a) water cement ratio and (b) workability of concrete.
17. (a) list out various types of distempers.
(b) Write any five characteristics of good timber.
18. What is the role of civil engineer in the preparation of quality of mortar and concrete.

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