



c16-c-305

6226

BOARD DIPLOMA EXAMINATION, (C-16)

JANUARY/FEBRUARY—2022

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 any three characteristics of a good building stone.
2. What is frog? What purpose does it serve?
3. Write any three functions of sand.
4. What are the characteristics of good tiles?
5. Define the terms (a) Initial set, (b) Final set and (c) Hardening of cement.
6. What do you understand about Hydration of cement? Write about water cement ratio.
7. State the ingredients of concrete and give their functions.
8. List the various constituents of paints.
9. Write short notes on (a) Emulsion Paint and (b) Wax polish.
10. What are the objects of seasoning of timber?

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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 criterion for valuation is the content but not the length of the answer.

11. Explain the classification of rocks with one example for each.
12. Write any six characteristics of good brick.
13. Define bulking of sand. Write four major differences between river sand and pit sand.
14. Describe the method of manufacturing of cement by dry process.
15. What are different types of mixing of concrete? Explain each in detail.
16. Write short notes on Admixtures such as (a) Plasticizers, (b) Accelerators and (c) Retarders.
17. What are the characteristics of good timber?
18. State the properties and the uses of the following :
(a) Enamel paints
(b) Water paints

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