



c16-c-305

**6226**

**BOARD DIPLOMA EXAMINATION, (C-16)**

**AUGUST/SEPTEMBER—2021**

**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. Differentiate between stratified and foliated rocks.
2. State any three characteristics of good bricks.
3. State the uses of stoneware pipes.
4. State the functions of building sand.
5. Mention the need for gypsum in cement.
6. Define (a) hydration of cement and (b) water-cement ratio.
7. State any three types of admixtures in cement.
8. Briefly explain the term 'vehicle' in painting.
9. List any three uses of glass.
10. List any three demerits of plastic.

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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 ten characteristics of a good building stone.
12. Explain the different stages involved in the preparation of brick earth.
13. Explain the procedure for manufacturing vitrified tiles.
14. Draw the flow diagram of cement manufacture by dry process.
15. Explain the method of preparing concrete manually.
16. Explain the purpose of conducting water absorption and sieve analysis tests on fine and coarse aggregates.
17. Explain briefly about enamel and wax polish.
18. Explain fiber glass and its uses.

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