

6226

## BOARD DIPLOMA EXAMINATIONS

OCT/NOV-2019

## DCE – THIRD SEMESTER

## CONSTRUCTION MATERIALS

Time: 3 hours

Max. Marks: 80

## PART – A

3 X 10 = 30

- Instructions:*
1. Answer **all** questions.
  2. Each question carries **Three** Marks.
  3. Answer should be brief and straight to the point and should not exceed Five simple sentences.

1. List any six properties of granite stone.
2. State any three uses of refractory bricks.
3. State any three functions of sand.
4. State any three properties of good tiles.
5. State any three uses of Portland cement.
6. Differentiate between fine aggregate and coarse aggregate.
7. Define the term “water cement ratio”. State the two ill effects of increased water cement ratio.
8. What are the ingredients in paints?
9. State any six types of paints.
10. Explain about fiber glass and its uses.

[cont.,

**PART – B**

**5 X 10 = 50**

- Instructions:*
1. Answer any **Five** questions
  2. Each question carries **TEN** Marks.
  3. Answer should be comprehensive and Criteria for Valuation is the content but not the length of the answer.

11. Explain the purpose of dressing of stones.
12. a) What is frog? What purpose does it serve? 5M  
b) What is moulding? Explain table moulding. 5M
13. Write the uses of the following tiles
- (a) Porcelain tiles.
- (b) Glazed tiles.
- (c) Floor tiles. 4+3+3M
14. Describe the method of manufacturing cement by dry process.
15. Explain the importance of compacting the concrete.
16. Describe any two methods of curing of concrete.
17. Describe the method of manufacturing plywood. State any four advantages of plywood.
18. What is gypsum wall plaster? State its uses.