

3222
BOARD DIPLOMA EXAMINATION, (C-09)
JUNE - 2019
*** DIPLOMA IN CIVIL ENGINEERING**
CONSTRUCTION MATERIALS
THIRD SEMESTER EXAMINATION

Time: 3 Hours

Total Marks: 80

PART - A (10 x 3 = 30 Marks)

Note 1: Answer all questions and each question carries 3 marks

2: Answers should be brief and straight to the point and shall not exceed 5 simple sentences

1. State any three types of stones and their suitability in buildings.
2. State the three important ingredients and their percentage content to be present in the earth for manufacturing bricks.
3. What is "Bulking of sand"?
4. State one property and two uses of quick setting cement.
5. Write a short note on Shotcrete Concrete.
6. State the ingredients of concrete and give their functions.
7. State three uses of Enamel.
8. State the ingredients of paint.
9. Define 'Plastic'. List the two main types of plastics.
10. What is Geo synthetics and mention the types of Geo synthetics.

PART - B (5 x 10 = 50 Marks)

Note 1: Answer any five questions and each question carries 10 marks

2: The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer

11. a) Explain the physical classification of rocks and give an example for each.
 b) State any five characteristics of good building stone.
- * 12. Explain briefly about the following.
 - a) Hollow concrete bricks
 - b) Solid concrete blocks
 - c) High quality building blocks
13. a) Mention the different types of tiles with their uses.
 b) State any five characteristics of good tiles.
14. State the importance and the application of fly ash and slag based cement.
15. State five uses of each of the following:
 - a) Accelerators
 - b) Super Plasticizers
16. Describe briefly the method of preparing cement mortar by both the methods.
17. What is varnish? Explain briefly about different varnishes.

18. a) Define 'seasoning of timber'. State four objectives of seasoning of timber.
b) State any five characteristics of good timber.

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