Code: C-09 C-306

3222

BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL - 2019

DIPLOMA IN CIVIL ENGINEERING CONSTRUCTION MATERIALS THIRD SEMESTER EXAMINATION

Time: 3 Hours Total Marks: 80

PART - A $(10 \times 3 = 30 \text{ Marks})$

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 physical classification of rocks and also give an example for each.
- 2. State the use of refractory bricks. Mention the main varieties of refractory bricks.
- 3. What is "Bulking of sand"
- 4. State any three tests for O.P.C. Give standard values for the respective tests.
- 5. Write a short note on Shotcrete Concrete.
- 6. State the difference between plain cement concrete and reinforced cement concrete.
- 7. List the uses of varnish.
- 8. State three uses of Enamel.
- 9. State three uses of Eco-Boards.
- 10. What is gypsum? What are the types of gypsum

PART - B $(5 \times 10 = 50 \text{ Marks})$

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. Explain briefly the characteristics of good building stone.
- 12. a) Explain the procedure to be followed for water absorption test on bricks.
 - b) State any four characteristics of good bricks.
- * 13. Write the uses of the following tiles.
 - a) Porcelain tiles b) glazed tiles c) floor tiles
 - 14. Describe the method of manufacturing of cement by dry process method.
 - 15. Explain briefly about the following with uses.
 - a) Plasticizers
 - b) Super plasticizers
 - c) Air entraining Agents
 - d) Accelerators.
 - e) Retarders
 - 16. Explain the procedure of mixing, conveyance, placing, compacting and curing of concrete.
 - 17. a) State and explain ingredients of a paints.
 - b) Write any five was of paint NARESULTS.CO.IN

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- 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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