



c09-c-306

3222

BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL—2014

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 the difference between Stratified rocks and Foliated rocks.
2. State the use of refractory bricks. Mention the main varieties of refractory bricks.
3. State any three important functions of sand.
4. Define the following terms :
 - (a) Initial setting time of cement
 - (b) Final setting time of cement
5. Write a short note on shotcrete concrete.
6. State the difference between plain cement concrete and reinforced cement concrete.
7. State any six types of paints.
8. State three uses of enamel paint.
9. State two types of gypsum and mention where they are used.
10. State any three objectives of seasoning of timber.

*

PART—B

10×5=50

- Instructions :** (1) Answer *any five* questions.
(2) Each question carries **ten** marks.
(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 11.** List any six properties and four uses of Granite stone.
- 12.** Explain about Mangalore tiles with advantages.
- 13.** (a) List various tests to be conducted on bricks.
(b) Explain any two standard tests on bricks.
- 14.** Write short notes on the following :
(a) Quick setting cement
(b) White cement
- 15.** What are the different steps involved in concreting? Explain any two.
- 16.** Explain briefly about the following with uses :
(a) Plasticizers
(b) Super plasticizers
(c) Air entraining agents
(d) Accelerators
(e) Retarders
- 17.** What is varnish? Explain briefly about different varnishes.
- 18.** What is plywood? List the uses of plywood.

*
