

c14-c-305

4229

BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL—2017 DCE—THIRD SEMESTER EXAMINATION

CONSTRUCTION MATERIALS

Time: 3	hours]	[Total Marks : 80
Instruct	PART—A tions: (1) Answer all questions.	3×10=30
	(2) Each question carries the	ree marks.
	(3) Answers should be brief an shall not exceed <i>five</i> simple.	· ·
1. State the difference between stratified rocks and foliated rocks. $1\frac{1}{2}+1\frac{1}{2}=3$		
2. Naı	me the classification of bricks as pe	r ISI. 3
3. Sta	te different substitute materials for	sand. 3
4. Sta	te the uses of stoneware pipes.	3
5. Sta	te any four uses of cement.	3
6. Sta	te the ingredients of concrete and g	give their functions. $1\frac{1}{2}+1\frac{1}{2}=3$
7. Wh	at is meant by 'curing of concrete'?	State its need. $1\frac{1}{2}+1\frac{1}{2}=3$
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9. Define the following terms : $1\frac{1}{2}+1\frac{1}{2}=3$ (a) Glass (b) Asbestos **10.** State any three advantages of air seasoning. 1+1+1=3 $10 \times 5 = 50$ PART—B **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. Describe the following methods of surface finishes with neat sketches: 3+4+3=10(a) Rough-tooled surface (b) Tooled surface (c) Polished surface **12.** (a) List various tests to be conducted on bricks. (b) Explain any two standard tests on bricks. 4+6=10**13.** Explain briefly about the following wall tiles: 5+5=10 (a) Ceramic tiles (b) Vitrified tiles **14.** Write short notes on the following: 5+5=10 (a) Quick-setting cement (b) White cement /4229 2 [Contd...

8. What are French polish and Wax polish?

 $1\frac{1}{2}+1\frac{1}{2}=3$

- **15.** Describe the method of preponing cement mortar by hand mixing and machine mixing. 5+5=10
- 16. (a) State any five factors effecting 'water-cement ratio'.
 - (b) Explain briefly about reinforced cement concrete. 5+5=10
- 17. State the properties and the uses of the following: 5+5=10
 - (a) Enamel paints
 - (b) Water paints
- **18.** What is fiber-reinforced plastic? Explain its application in building industry.

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