

c14-c-**305**

4229

BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL-2018

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 physical classification of rocks with an example for each.
- **2.** List the uses of a refractory brick.
- **3.** Mention any six characteristics of good tiles.
- **4.** State the characteristics of good sand.
- 5. List the standard tests for cement as per Indian standards.
- **6.** Differentiate plain cement concrete and reinforced cement concrete.

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- 7. What is the use of super plasticizer?
- 8. List any four substances that are used as vehicles in paints.
- 9. Differentiate plywood and laminated board.
- **10.** State the advantages of asbestos products.

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.** Explain the purpose of dressing of stones.
- 12. Explain the characteristics of a good brick.

13.	(a)	State the advantages and disadvantages of using crushed	
		stone powder as a substitute for sand.	5
	(b)	List the types of tiles as per their usage.	5
14.	(a)	List various grades of cements.	3
	(b)	Write the procedure to perform compressive strength test on cement.	7
15.	(a)	State the advantages and disadvantages of ready mix concrete.	6
	(b)	Write short note on hydration of cement.	4
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*	16.	(a)	State the factors affecting workability.	6
		(b)	List different tests for determining the workability of concrete.	4
	17.	(a)	Mention the uses of surface protective materials.	6
		(b)	Write the composition of paint.	4
	18.	(a)	What are the uses of plastics in building?	5
		(b)	List various types of glasses used in construction.	5

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