Total No. of Questions—8]

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Seat No.

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S.E. (CIVIL) (I Semester) EXAMINATION, 2017

		BUILDING TECHNOLOGY AND MATERIALS
		(2015 PATTERN)
Time	: T	wo Hours Maximum Marks : 50
<i>N.B</i> .	:	(i) Attempt Q. No. 1 or Q. No. 2, Q. No. 3 or
		Q. No. 4, Q. No. 5 or Q. No. 6, Q. No. 7 or Q. No. 8.
	_	(ii) Figures to the right indicate full marks.
	T.	(iii) Draw neat sketch wherever necessary.
1.	(a)	Enlist various types of Bonds. Explain any one with a neat
		figure. [6]
	(<i>b</i>)	Explain the general procedure of foundation design. [6] Or
2.	(a)	Explain Cantilever footing with a labeled sketch. [6]
	(b)	Enlist types of Scaffolding. Explain any two in detail, [6]
3.	(a)	Explain Vacuum Dewatered Flooring. [6]
4	(<i>b</i>)	Write a note on method of arch construction. [6]
		Or
4.	(a)	Explain with reason which type of flooring is recommended
Į.		for the following: [6]
		(i) Lecture hall of a college

P.T.O.

		(ii) Laboratories of a college	
		(iii) Garage	
		(iv) Auditorium	
		(v) Machine shop	
		(vi) Canteen.	
	(<i>b</i>)	Draw a neat labeled sketch of panelled window with appropriat	te
		dimensions.	6]
5.	(a)	Enlist various types of plastering and explain Lime plaste	er
	X.	in detail.	6]
	(b)	List any four types of staircases. Draw a Doglegge	d
		stair.	7]
		Or	
6.	(<i>a</i>)	Write a short note on wall cladding.	6]
	(<i>b</i>)	Explain the requirements of a good stairs with reference t	to.
		the following:	7]
		(i) Pitch	
		(ii) Rise and Tread	
É	4	(iii) Headroom	
		(iv) Width of stair	
	Ž	(v) Width of Landing	
		 (ii) Rise and Tread (iii) Headroom (iv) Width of stair (v) Width of Landing (vi) Number of steps in a flight (vii) Location of a staircase. 	
9944"		(vii) Location of a staircase.	

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7.	(a)	Explain the precautions to be taken for safety of workers on
		site. [7]
	(<i>b</i>)	Write a note on Eco-friendly materials in construction. [6] Or
8.	(a)	Write short notes on: (i) Characteristics of good timber
		(ii) Types of Glass and their properties used in construction.
	(<i>b</i>)	Explain the term Shoring. State the situations where shoring
		is required. [6]