Seat	
No.	1

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## S.E. (CIVIL) (I Semester) EXAMINATION, 2017 BUILDING TECHNOLOGY AND MATERIALS (2015 PATTERN)

		(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.									
	JX.	(iii) Draw neat sketch wherever necessary.									
		3,8									
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]									
	( <i>b</i> )	Enlist types of Scaffolding. Explain any two in detail. [6]									
3.	(a)	Explain Vacuum Dewatered Flooring. [6]									
	( <i>b</i> )	Write a note on method of arch construction. [6]									
		Or									
4.	(a)	Explain with reason which type of flooring is recommended									
		for the following: [6]									
		(i) Lecture hall of a college									

		(ii) Daboratories of a confege	
		(iii) Garage	
		(iv) Auditorium	
		(v) Machine shop	
		(vi) Canteen.	
	( <i>b</i> )	Draw a neat labeled sketch of panelled window with appropria	te
		dimensions.	[6]
<b>5.</b>	(a)	Enlist various types of plastering and explain Lime plast	er
	×	in detail.	[6]
	(b)	List any four types of staircases. Draw a Doglegge	эd
		stair.	7]
		Or	
6.	(a)	Write a short note on wall cladding.	[6]
	<i>(b)</i>	Explain the requirements of a good stairs with reference	to
		the following:	7]
		(i) Pitch	
		(ii) Rise and Tread	
		(iii) Headroom	
		(iv) Width of stair	
		(v) Width of Landing	
		(vi) Number of steps in a flight	
		<ul> <li>(ii) Rise and Tread</li> <li>(iii) Headroom</li> <li>(iv) Width of stair</li> <li>(v) Width of Landing</li> <li>(vi) Number of steps in a flight</li> <li>(vii) Location of a staircase.</li> </ul>	

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<b>7.</b>	(a)	Explain	the	precautions	to be	taken	for	safety	$\mathbf{of}$	workers	on
		site.		Č							[7]

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

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