Seat	
No.	2

[5352]-501

S.E. (Civil) (I Sem.) EXAMINATION, 2018 BUILDING TECHNOLOGY AND MATERIALS (2015 PATTERN)

Time : Two Hours	Maximum Marks: 50			
N.B. :- (i) Solve Q. No. 1 or Q. No. 2,	Q. No. 3 or Q. No. 4,			
Q. No. 5 or Q. No. 6, Q. N	No. 7 or Q. No. 8.			
(ii) Figures to the right indicate	full marks.			
(iii) Assume suitable data, if nece	ssary.			
(iv) Use of non-programmable scien	tific calculator is allowed.			
Q 1 a) Write a short note on: causes of failure of foundations.	5 j			
b) Explain in depth Reinforced Brick Masonry.	5 · · · · · · · · · · · · · · · · · · ·			
OR				
Q 2 a) Write a short note on silica bricks, considering following po	pints: ingredients, 6			
properties, applications.				
b) Write a short note on "slip formwork"	4			
Q 3 a) Write a short note on :functional requirements of flooring.				
b) Explain in depth i) folding doors ii) casement window.				
OR				
Q 4 a) Write a short note on pneumatic structures.	5			
b) Write a short note on "construction of an arch"	5			
Q 5 a) Write a short note on i) lifts andii) escalators.	8			
b) Explain in depth, "pointing".	7			
OR				
Q 6 a) Design a dog legged staircase using following data: i) Floor	to floor height- 3.2 m, 7			
ii) Riser- 160 mm, iii) Tread : 275 mm, iv) Landing width- 1.2	ii) Riser- 160 mm, iii) Tread: 275 mm, iv) Landing width- 1.2 m (observed on			
either side of flight). Find the internal dimensions of staircase room. Draw the				
plan for the same.				
b) Write a short note on "wall cladding and white washing"; c	onsidering following 8			
points- meaning, purpose, material, process.				

Q 7 a)	Write a short note on :application of i) ceramic and ii) ecofriendly materials in		
b)	construction industry. Explain in depth "Shoring". OR	7	
Q 8 a)	Write a short note on : application of i) aluminum and ii) timber in construction industry.	8	
b)	Write a short note on "causes and prevention of accidents" on construction site.	7	

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