Seat	
No.	9 9

[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. 1	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 .			
b) Explain in depth Reinforced Brick Masonry	5			
ORV.				
Q 2 a) Write a short note on silica bricks, considering following po	oints: 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.	4 6			
b) Explain in depth i) folding doors ii) casement window.				
OR	8			
Q 4 a) Write a short note on pneumatic structures.				
b) Write a short note on "construction of an arch"	5			
Q 5 a) Write a short note on i) lifts andii) escalators .	8 4			
b) Explain in depth , "pointing".	7			
OR				
Q 6 a) Design a dog legged staircase using following data: i) Floor				
ii) Riser- 160 mm, iii) Tread : 275 mm, iv) Landing width- 1.				
either side of flight). Find the internal dimensions of stairca	ise 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.				

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

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