Enrollment No:____

PARUL UNIVERSITY FACULTY OF ARCHITECTURE & PLANNING **B.Arch.Summer 2018-19 Examination**

~	D.Arch.Summer 2018-19 Examination	
Semester: 4Date:20/05/2019Subject Code: 01101252Time: 10:00 am to 01:00Subject Name: Building Materials & Construction Technology IVTotal Marks: 50		m
Instru	ctions:	
1. All	questions are compulsory.	
2. Figu	ires to the right indicate full marks.	
	ke suitable assumptions wherever required.	
4. Dra	w suitable sketches wherever required.	
Q.1	Assume a lawyer's office of 3.5 m inner width and 5 m inner length, and design false ceiling for the same. Draw reflected ceiling plan, sections and details of the same in an appropriate scale with material specifications.	(10)
Q.2	Attempt any five out of the following six:	(20)
1)	Define the following:	
	a) Cavity walls b) Shoring c) Scaffolding d) Precast concrete	
2)		
3)		
	a) Wall ties c) Formwork of column	
	b) Single flying shoring d) Strutting	
4)	Explain with sketches: details of cavity wall for flat and inclined roofs.	
5)	What is green concrete? How it's made and what are the advantages of using green concrete?	
6)	Mention factors to be considered for designing and locating elevators in a building.	
Q.3	Explain the following in brief: (Any five)	(10)
	1) Shuttering. 4) Qualities of good framework	
	2) Hydraulic lift 5) Explain briefly partitions and paneling	
	3) Partition wall 6) Dumbwaiter	
Q.4	Explain the following: (Any two)	(10)
	 Enlist different types of partition wall with introduction of each. Sketch and explain single scaffolding and double scaffolding. 	

- Sketch and explain single scaffolding and double scaffolding.
 What is elevator? Classify elevator based on its purpose.