Enrollment No: \_\_\_\_\_

## PARUL UNIVERSITY FACULTY OF ARCHITECTURE & PLANNING B.Arch./ B.ID Winter 2018-19 Examination

Semest Subjec	eer: 4 t Code: 01101252	_010		Date: 26/11/2018 Time: 02:00pm to 05:00	pm
<u>Subjec</u>	t Name: Building Materials & Construction Tech	nolog	gy IV	Total Marks: 50	
Instruc	ctions:				
1. All q	uestions are compulsory.				
2. Figur	res to the right indicate full marks.				
3. Make	e suitable assumptions wherever required.				
4. Drav	v suitable sketches wherever required.				
Q.1	Assume an Architect's office of 4 m width and 5 m reflected ceiling plan, sections and details of the sar specifications.	leng ne in	th, and design false of an appropriate scale	ceiling for the same. Draw e with material	(10)
Q.2	Attempt any five out of the following six:				(20)
1)	Define the following:				
	a) Cavity walls b) Partition wall	<b>c</b> )	) Scaffolding	d) Precast concrete	
2)	Filling the blanks:				
	<ul> <li>a) is a hoist way through which one or more elevator cars may travel.</li> <li>b) are used in buildings to accommodate vertical movement by allowing an expansion joint to be placed beneath the angle.</li> <li>c) are designed for robust operation with user-friendly controls to ensure trouble-free operation.</li> <li>d) are used in buildings to accommodate vertical movement by allowing an expansion joint to be placed beneath the angle.</li> </ul>				
3)	Sketch the following:				
	a) Strutting	c)	Ladder scaffolding		
	b) Double skin partition wall	d)	Single flying shori	ng	
4)	Explain with sketches: details of cavity wall for flat and inclined roofs.				
5)	Enlist different types of partition wall with introduction of each.				
6)	Sketch single scaffolding and double scaffolding.				
Q.3	Explain the following in brief: (Any five)				(10)
C	1) Wall ties	4)	Ladder scaffolding		
	2) Cavity walls	5)	Qualities of good f	ramework	
	3) Partition wall	6)	Explain briefly par	titions and paneling	
Q.4	Explain the following: (Any two)		_ • •		(10)
	<ol> <li>What is elevator? Classify elevator based on its purpose.</li> <li>What is participated with the state of the state of</li></ol>				

- 2) What is partition wall? Mention and elaborate different materials used for light partitions.
- 3) Mention factors to be considered for designing and locating elevators in a building.