Seat No:	Enrollment No:
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PARUL UNIVERSITY

FACULTY OF ARCHITECTURE & PLANNING

B.Arch/B.ID., Summer 2017-18 Examination

	nester: 3 oject Code: 01101202	Date: 14/05/2018 Time: 2:00pm to 5:00pm	l
Sul	oject Name: Building Material and Construction Technology - III	Total Marks: 50	
Inst	ructions:		
1.	All questions are compulsory.		
2.	Figures to the right indicate full marks.		
3.	Make suitable assumptions wherever required.		
4.	Draw suitable sketches wherever required		
Q.1	Define Door and Window. Enlist with schematic sketches of at least	four types of each.	(10)
Q.2	Answer the following: (any five)		(20)
	a. Fill in the blanks:		
	i is the intermediate horizontal framing member between	the bottom and top rails in	
	a framed door, where the lock is often fitted.		
	ii is the vertical surface forming the front face of a step.		
	iii is the horizontal platform or level area at the top of a flig	ht of stairs, which may have	
	another flight leading from it.	•	
	iv. A mean of vertical circulation consisting of many steps from one le	vel to another is called	
	b. Differentiate the following with necessary sketches		
	i) Push pull type rolling shutter and mechanical gear type rolling shut	tter.	
	ii) Gable window & Dormer window		
	c. Explain the following:		
	i)Sanitary fixtures ii) types of traps		
	d. Sketch the following:		
	i) Dogleg stair ii) Helical stair iii) Ramp iv)Sliding folding window		
	e. Differentiate the following:		
	i) Louvered window & Metal window ii) Glazed Door & Wooden sh	nutter Door	
	f. Answer the following:		
	i) Explain the various types of Urinals &WCs.		
Q.3	Explain briefly the following(Any five)		(10)
•	a. Hardware Fixture.		()
	b. Types of Washbasins.		
	c. Types of doors based on Material.		
	d. Types water closets with sketches.		
	e. Elements of door& window.		
	f. Plumbing fixtures.		
Q.4	Write a short note on:(Any two)		(10)
Ţ.Ţ	a. Materials used for manufacturing doors and windows. State advantage	res and disadvantages of	(10)
	each material.	ses and disadvantages of	
	b. Factors to be carried out while constructing a staircase.		
		on Hard & Mild Stool	
	c. Steel as a construction material. Explain its uses. Differentiate between	en maru & wind steel.	