Enrollment No: _____

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

B.Arch. Winter 2018-19 Examination		
Semester: 5 Date: 10/12/2018		
Subject Code: 01101302 Time: 02:00 pm to05:00		m
Subje	ct Name: Building Materials & Construction Technology- V Total Marks: 50	
Instructions:		
	questions are compulsory.	
•	ures to the right indicate full marks.	
	ke suitable assumptions wherever required.	
4. Dra	w suitable sketches wherever required.	
Q.1	Enlist types various types of deep foundation and shallow foundation. Sketch any three types of shallow foundation and explain the situation where they can be used.	(10)
Q.2	Attempt any five out of the following six.	(20)
1.	Define the following:	
	a) Thermal Insulation	
	b) Total Thermal Resistance	
	c) Semi- Gravity Retaining wall	
2.	d) Convection	
	Explain one-way and two-way slabs with relevant sketches.	
3.	Explain the safety measures to be taken during building construction.	
4.	Write a short note on Anti-termite treatment.	
5.	Explain steel as a building material.	
6.	Give a difference between Raft Foundation and Grillage foundation.	(10)
Q.3	Explain the following: (any five)	(10)
	a) Column to Column connection of Precast Elements.	
	b) Disadvantages of Waffle slab.c) Lacing & Bracing	
	d) Causes of Dampness in a building.	
	e) Column to Footing connection in steel structure.	
	f) Explain the composition of RCC & PCC.	
Q.4	Answer any two out of the following three	(10)
	a) Sketch any two types of Retaining wall	
	b) Define Vault. Enlist and Sketch types of Vaults.	

c) Explain the importance of curing in concrete structures.