

Enrolment Number: \_\_\_\_\_

PARUL UNIVERSITY  
FACULTY OF ENGINEERING & TECHNOLOGY  
B. TECH MIDSEM EXAMINATION  
7th SEMESTER

ACY-2022-23 (EVEN SEM)

Subject Name (Code): Pre-Engineered & Precast Structure (203104401)

Branch: Civil

Date: 05/08/2022

Time: 10:30 am to 12:00 pm

Total Marks: 40

Sr. No.		Marks
Q.1	(A) 1) Define prefabrication. 2) PEPS construction is popularly used to build industrial structures like  3) The welding to be done on both the sides for force requirements. 4) Define the term Off-site fabrication. 5) Define shear wall.	05
	(B) What are the special material properties in of prefabricated structure?	05
Q.2	Attempt any four (Short Questions) (1) Advantages of Prefabrications. (2) List out the Prefabrication types. (3) Benefits of Precast concrete frames. (4) What are the basic precast concrete systems? (5) What are the lateral load resisting elements in a building?	12
Q.3	Attempt any two (1) What are the Precast Concrete frames? (2) Enlist the benefits of Modular Coordination. (3) Explain Beam and Column systems.	08
Q.4	(A) Discussed anyone of the prefabrications methos. (B) What are the important factors affecting the Modular homes?	05 05
	OR	
	(B) Explain in detail various design consideration in the design of precast construction.	05