Enrolment Number: _____

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B. TECH MIDSEM EXAMINATION
3rd SEMESTER
ACY-2022-23 (ODD SEM)

Subject Name (Code): Material Testing and Evaluation (203104213) **Branch: Civil Engineering**

Date: 04-08-2022 **Time: 2:30-4:00 PM** **Total Marks: 40**

Sr. No.		Marks
Q.1	(A) MCQ	05
	(1) Which are the naturally available materials mentioned below a) Paints b) Glass c) Plastic d) clay	
	(2) The color of brick should be a) Red b)Copper c) Both A & B d) Brown	
	(3) Which are the types of concrete? a) Plain Cement b) Reinforced Cement c) Prestressed d) All of above	
	(4) .....Imparts colour to cement a) Iron Oxide b) Calcium Sulphate c) Alumina d) Sulphur Dioxide	
	(5) Limestone rock is the principal raw material, the first step after quarrying in the processes is ..... a) Raw milling & Blending b) Crushing c) Pyro processing d) None of above	
	(B) fill in the blanks-	05
	(1) ....is the heat generated when cement and water react	
	(2) .....is the most important property of freshly mixed concrete.	
	(3) ... .is used in the treatment of water & waste water	
	(4) Size of fine aggregate is	
	(5) .... is the particle-size distribution of an aggregate as determined by a sieve analysis using wire mesh sieves with square openings.	
Q.2	Attempt any four (Short Questions)	12
	(1) List out the properties of Bricks	
	(2) Demonstrate the modern use of Cement	
	(3) Explain the criteria of using Sea water and Industry Wastewater in concrete	
	(4) Define Bleeding and its impact on Concrete	
	(5) Determine the salient features of using lime in concrete.	
Q.3	Attempt any two	08
	(1) Compare the Light weight aggregate and Heavy weight aggregate	
	(2) Analyze the process of Mixing of Concrete	
	(3) How is Cement Industry contributing to construction sector and Indian Economy.	
Q.4	(A) Explain the process of manufacturing of Cement with schematic diagram	05
	(B) Enlist some of the most commonly used Engineering materials in infrastructure sector along with its application	05
	OR	
	(B) What is curing of concrete? Explain its types in brief	05