Enrolment Number:	
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PARUL UNIVERSITY

FACULTY OF ENGINEERING & TECHNOLOGY

B. TECH EXAMINATION (MID SEMESTER)

8th - SEMESTER (ACY-2023-24)

SUBJECT: Petrochemical Technology (203103481)		BRANCH: Chemical Engineering	
[Date: 31/01/2024]	[Time: 10.30 A.M. to 12.00 P.M.]	[Total Marks: 40]	
Instructions:			
c) Rejection of hyde. 2. Vis-breaking is_a) Reduction of T c) Reduction of V 3. What does the wall Chemicals based con Chemicals based 4. Cracking is a/and a) Exothermic con Both a & b	is compulsory. wings. ce Questions: is lrogen b) Addition of Carbon drogen d) All emperature b) Enhancement of Velocity fiscosity d) Both (a) and (b) word petrochemicals signify? d on coal b) Chemicals based on atmospheric conditions d) All	-	
(B) Define: Paraffin	n, Pyrolysis, Quenching, Olefins and Catalyst	05	
Q.2 Attempt Any Fou	r (Short Questions):	12	
(Min 8).	ne, raw material, product, and applications of Pet jor Primary reactions in Catalytic cracking.	roleum refinery	
	on, Propagation and Termination for Thermal cra	cking.	
	il Origin and Formation of Petroleum.	J	
(5) Discuss the key	operating parameters in visbreaking.		

Q.3	Attempt any two:	08
	(1) Explain Coil Technology with flow sheet with description.	
	(2) Write short note on "Petrochemical sector- Past, Present and future"	
	(3) Compare catalytic with other non-catalytic cracking processes.	
Q.4	(A) Discuss the different feedstocks used in methanol production and their impact on the overall process.	05
	(B) What is FCC? Explain the regeneration process of catalyst in FCC.	05
	OR	
	(B) Write short note on Hydro Cracking.	05