10/06/2025 BE CHEMICAL SEM-VII C-SCHEME PRT QP CODE: 10080363

[Time: 03 hrs]		rs] [Marks:8	[Marks:80]	
N. B	.: (1)	(1) Question No. 1 is Compulsory.		
	(2)	Attempt any THREE questions out of remaining FIVE questions.		
	(3)	Figures to the right indicate full marks.		
	(4)	While explaining the Flow sheets mention Operating Parameters, I/P, O/P etc c	learly.	
1.	Answer the following questions: [20]		A	
	(a)	Origin theory of petroleum.		
	(b)	Explain Cloude point and smoke point.		
	(c)	Explain Sweet and Sour crude.	5	
	(d)	Write a short note on Biofuel.	2	
2.	(a)	Explain HF alkylation process in detail and compare it with sulfuric acid alkyla Process.	ation [10]	
	(b)	Explain different types of Asphalt and explain air blowing of bitumen process	[10]	
3.	(a)	Discuss in brief the process of furfural extraction for lubricating oil. What		
		are the advantages of using furfural over phenol as a solvent?	[10]	
	(b)	What the different type of Coking methods. Explain Flexi Coking in detail with	ı a	
		flow diagram.	[10]	
4.	(a)	Explain Merox Sweetening process for Gasoline.	[10]	
	(b)	Explain different tower arrangement used for crude distillation unit with a		
26th	, , ,	suitable diagram.	[10]	
5.	(a)	Explain Propane dewaxing process with neat flow diagram	[10]	
	(b)	Describe the fluidized catalytic cracking (FCC) process with its importance in	[10]	
6	(a)	Refinery. Discuss LPG manufacture in detail with suitable flow diagram.	[10]	
υ.	V VO '		[10]	
	(b)	Give different testing methods to test quality of gasoline. Explain anyone meth in short with a suitable diagram	.oa [10]	