38 2nd nation Sem 7 - Chemical - Petrochemical 7- Refining
Con ECES 10 (REVISED COURSE) Technology GT-8943 (REVISED COURSE) Con. 5655-10.

(3 Hours)

[Total	Marks		100
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		(3 Hours)	
N	.В.:	Ouestion No. 1 is compulsory. Attempt any four questions out of remaining six questions. Figures to the right indicate full marks.	
1,		and discuss importance of following:— a) Octane number and cetane number b) Pour Point and Smoke Point c) API gravity and characterisation factor d) Sweetening and Desulfurisation.	
2	(a)	Explain Catalytic reforming process giving operating conditions, catalysts and 10	5
	(b)	neat flow diagram. Explain sulfuric acid alkylation process with neat flow diagram. And explain how to differ from Hr acid alkylation Process.	
-	7.A	Give different testing methods to test quality of kerosene. Explain any one method 10	00000
3.	(a) (b)	write in detail the process of visbreaking giving operation conditions and near investment in detail the process of visbreaking giving operation conditions and near investment.	ļ
		flow diagram.)
4.	Dis	nguish between following:— (a) Hydro treatment and Hydro desulfurisation (b) Thermal Cracking and Catalytic Cracking (c) Steam Cracking and Steam Reforming (d) Thermofor and Houdri flow Cracking.	
		Give different types of Asphalt. And explain air blowing of Bitumen Process with	0
5.	(a) (b)	Write and explain different tower arrangements used for crude distillation in short.	0
98	13	with neat diagram. Explain Delayed coking operation with suitable flow diagram and operating 1	0
6.	(a	conditions. Explain Hydro cracking process giving reactions, reaction conditions, feed stock 1 Explain Hydro cracking process giving reactions, reaction conditions, feed stock 1	0
	(b	and catalyst used with heat diagram	0
7.	-	Curtain why it is reduited ?	0
	(b	Write notes on following (any two):— (i) Catalyst deactivation and poisoning (ii) Safety and pollution control in Petrochemical Industries (iii) Fluid Catalytic Cracking (FCC).	