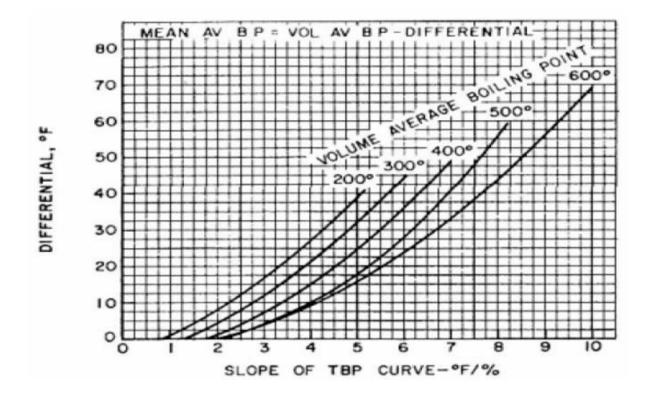
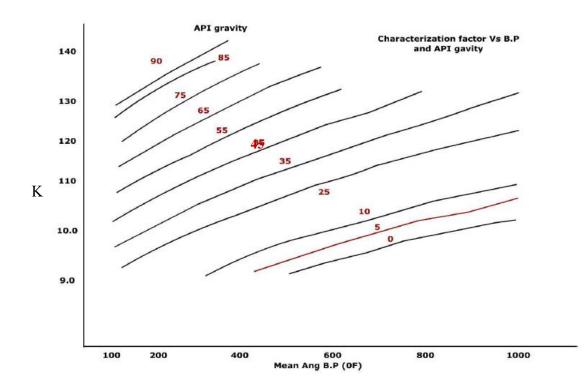
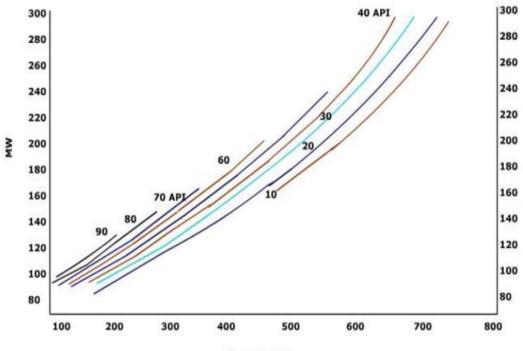
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Enrolr	nent No:	UNIVERSITY WITH A PURPOSE				
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Progr	End Semeste e: Petroleum Refining & Petrochemica am: B.Tech (CE+RP)/APE Gas e Code: CHGS 3013	er Examination, December 2020 I Technology Semester: V Time 03 hrs. Max. Marks: 1			00	
	ctions: In case of data missing make nec			-		
Note: S. No.	e: The graphical data is provided in Page No. 2 & 3 to solve problem no. 7 SECTION A (6X10=60) (Attempt all questions)					со
Q 1	What are the major problems faced by Indian refining industry in global market?				10 M	CO1
Q 2	Discuss the various theories on origin and formation of petroleum					CO1
Q 3	Define and discuss the importance of the following: (a) Octane number and Cetane number (b) Discuss the various methods of evaluation of petroleum					CO2
Q 4	Explain the process of atmospheric distillation unit and vacuum distillation unit					CO3
Q 5	Explain catalytic reforming process with reference to the following pointsa) Objectiveb) Feed stockc) Catalyst usedd) Major Reactionse) Process Condition					CO4
Q 6	Give the necessity of product blending. Explain in brief about the parameters to be considered in the octane number blending process.					CO5
	SEC Question <u>No. 7</u> compute		one in questio			I
Q 7	For the given TBP distillation data, plot TBP and calculate the UOP characterization factor average boiling point (VABP, MEABP), molecular weight and weight based on 100 barrels of whole crude. °API of crude is 25.				20 M	CO2
	Vol. % 10 30   T (°F) 250 370	<u> </u>	70 490	<u>90</u> 540		
Q 8	With a neat flow diagram, explain the fluid catalytic cracking process. And explain the effect of process variables on catalytic cracking? OR Explain delayed coking operation with suitable flow diagram and operating conditions.				20 M	CO4







Mean Avg B.P.