


Name:			
Enrolment No:			
<b>UNIVERSITY OF PETROLEUM AND ENERGY STUDIES</b> <b>End Semester Examination, December 2022</b>			
<b>Course: B.Tech APE GAS</b> <b>Program: Petroleum refining and Petrochemical Technology</b> <b>Course Code: CHGS3013P</b>		<b>Semester: VII</b> <b>Time : 03 hrs.</b> <b>Max. Marks: 100</b>	
<b>Instructions: Attempt All questions</b>			
<b>SECTION A</b> <b>(5Qx4M=20Marks)</b>			
S. No.		Marks	CO
Q 1	Briefly discuss the composition of natural gas.	4	CO1
Q 2	Write the composition of crude oil in an oil field.	4	CO1
Q 3	The sweetening of natural gas is done to remove which type of impurities.	4	CO2
Q 4	The carbon range and boiling range of gasoline is.....	4	CO3
Q 5	Differentiate between soaker Vis breaking and Conventional Vis breaking in four points.	4	CO4
<b>SECTION B</b> <b>(4Qx10M= 40 Marks)</b>			
Q 6	Describe the various petroleum hydrocarbon types in detail.	10	CO1
Q 7	Describe coking process and explain with the help of neat flowsheet delayed coking process.	10	CO3
Q 8	Discuss the general methods of preparation of petrochemicals from components of crude oil.	10	CO4
Q 9	Discuss various challenges faced by Indian refining industries.	10	CO2
<b>SECTION-C</b> <b>(2Qx20M=40 Marks)</b>			
Q 10	Describe fluid catalytic cracking technique for the manufacture of gasoline from naphtha.	20	CO3
Q 11	Discuss the manufacture of formaldehyde from methanol with explanation of flow sheet diagram.	20	CO4