Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES **End Semester Examination, December 2022**

Course: Petroleum Refining and Petrochemical Technology

Semester: V Program: B. Tech CE + RP Time: 03 hrs. Course Code: CHGS 3013 P Max. Marks: 100

Instructions:

SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Compare isomerization and reforming.	4	CO4
Q 2	Distinguish between fire point and smoke point.	4	CO2
Q 3	Write briefly about the catalysts used in cracking.	4	CO2
Q 4	Differentiate between thermal cracking and coking.	4	CO3
Q 5	Define thermosetting and thermoplastics.	4	CO4
	SECTION B (4Qx10M= 40 Marks)		
Q 6	Describe conventional Vis breaking process with the help of a neat flowsheet. Mention all the units present along with the products	10	CO1
Q 7	Describe sweetening of natural gas with a neat flowsheet.	10	CO4
Q 8	Explain any one of the following processes in detail, with a neat flowsheet. a) Hydrocracking or (b) Ammonia manufacturing	10	CO3
Q 9	Describe the structure of petrochemical industry with the help of a flowchart.	10	CO3
	SECTION-C (2Qx20M=40 Marks)		
Q 10	Discuss the objective and process of FCC, with a neat flowsheet.	20	CO4
Q 11	Describe the manufacturing process of methanol from syngas, with a neat flowsheet.	20	CO4