Name: **Enrolment No:**	

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

Course: Petroleum Refining and Petrochemical Technology **Semester: VII**
Program: B.Tech Chemical **Time : 03 hrs.**
Course Code: CHGS 3013 P **Max.**
Marks: 100

Instructions: Attempt all

SECTION A
(5Qx4M=20Marks)

S. No.		Marks	CO
Q 1	Write the composition of natural gas and crude oil.	**4**	**CO1**
Q 2	Briefly describe coking process and its types.	**4**	**CO2**
Q3	Distinguish between alkylation and isomerization process.	**4**	**CO2**
Q 4	Discuss the importance of natural gas sweeting process.	**4**	**CO4**
Q 5	Briefly describe soaker Vis breaking process.	**4**	**CO3**
	SECTION B **(4Qx10M= 40 Marks)**		
Q 5	Write in detail the process of conventional Vis breaking with the help of flowsheet.	**10**	**CO4**
Q 6	Explain the atmospheric distillation process with the help of flowsheet.	**10**	**CO1**
Q 7	Discuss the production of aromatics via naphtha reforming.	**10**	**CO2**
Q 8	Explain desalting of crude oil with a flow diagram.	**10**	**CO3**
	SECTION-C **(2Qx20M=40 Marks)**		
Q 9	Describe the fluid catalytic cracking process in detail.	**20**	**CO4**
Q10	Explain the steam cracking of naphtha for the olefins production.	**20**	**CO2**