Reg. No.					



VI SEMESTER B.TECH. END SEMESTER MAKE-UP EXAMINATIONS JUN 2018 SUBJECT: PETROLEUM REFINERY ENGINEERING [CHE 4004] REVISED CREDIT SYSTEM (22/06/2018)

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

☑ Answer **ALL** the questions. ☑ Draw a neat flow sheet wherever required.

1A.	Explain the origin of petroleum.	3
1B.	Briefly describe the process of electric desalting with a neat schematic flow diagram.	4
1C.	List out the tests and properties of kerosene and describe any two tests.	3
2A.	Describe the Dubbs thermal cracking process with a neat flow diagram.	8
2B.	List out the petroleum fractions withdrawn from a distillation unit along with their boiling range.	2
3A.	How do you remove the coke, which formed during the delayed coking process?	2
3B.	Describe the delayed coking process with a neat flow diagram.	8
4A.	Write short notes on OPEC and WPC.	4
4B.	Discuss the various types of refluxes carried out in atmospheric distillation unit with neat sketches.	6
5A.	Define Octane and Cetane Number.	3
5B.	Describe the process of semi-regenerative catalytic reforming with a neat flow sheet and mention the byproducts of the reforming process.	7

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CHE 4004 Page 1 of 1