Name: **Enrolment No:**	UPES UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM & ENERGY STUDIES

End Semester Examination (Online) – July, 2020

Program: MBA Oil & GAS **Semester : II**
Subject/Course: Fundamental of Refining **Max. Marks: 100**
Course Code: OGOG 7005 **Duration : 3 Hours**

IMPORTANT INSTRUCTIONS

1. *The student must write his/her name and enrolment no. in the space designated above.*
2. *The questions have to be answered in this MS Word document.*
3. *After attempting the questions in this document, the student has to upload this MS Word document on Blackboard.*

	Attempt all 5 Questions	**Marks**	**COs**
Q.1	LPG has been very useful in 2020 specially post CORONA-19 pandemic. Illustrate its production in complex refinery(explain both the processes). While there are other items(petroleum products) with very low sale , for a refiner's perspective what are the steps that are required necessary to take to create the balance and run the refinary to a minimal optimal level, how would you deal with this situation.	20	3
Q.2	Illustrate in detail how Crude oil classification , considering all aspect of it (crude oil & Gas) and crude assay are impartant aspect in a refinery prespectives.	20	4
Q.3	Explain historic perspective of crude oil and refinery business from last 150 years.(Impact of wars). Also critically analyse the low crude price that has impacted during in these years 2008, 2014 and 2020. (Identify the reasons for each given year). How global refineries have reacted / adjusted to this critical situation.	20	2
Q.4	Draw a parallel between FCC and Hydrocracking. Both are for the production of light fractions of hydrocarbon yet they are so different. Analyse in detail the two refinery options that we have today.	20	1

Q.5	Margins are important for any business so does for a petroleum refinery across the globe. The changing crude pattern from last 30 years has made it more complex in nature. The GRM in a refinery has multipl factors that are responsible for profit and loss. Take two crude of API 18 and 35 and analyse all factors responsible for a good GRM .	20	5

ANSWERS