

Roll No: -----



**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

End Sem Examination, December 2018

Program : MBA (OG) Semester : III  
 Subject (Course): Understanding Petrochemical Business Max. Marks : 100  
 Course Code :OGOG8005 Duration : 3 Hrs

Note: All sections are compulsory.

Section – A (2\*10 = 20 Marks)

Answer the following questions:

	Marks	CO
1. Natural gas is not a feedstock of petrochemicals True/ False	2	1
2. n- paraffin’s for use in detergents are obtained from kerosene fraction True/ False	2	1
3. Oil is the leading source of energy & petrochemicals globally True/ False	2	3
4. All plastics are polymers True/ False	2	3
5. Ethylene is produced by catalytic reforming process True/False	2	2
6. Give full forms of MTO & MTP	2	2
6. Propylene producing process is FCC, what is its full form .....	2	2
8. Cleaned Syngas comprises of .....and ..... gases	2	4
9. Petrochemicals prices are directly linked to price of .....	2	3
10. What are the three forms of Polyethylene ..... ..... & .....	2	2

Section – B (4x5 = 20 Marks)

All questions are compulsory:

	Marks	CO

1. Analyze the importance of petrochemicals in our life?	4	2
2. Name the two basic groups of petrochemicals with some members of each group and Identified and evaluate the feed stock.	4	2
3. What are the main uses of ethylene & propylene and mention their current global production.	4	3
4. What are the uses of aromatics (benzene & xylene) and how these are obtained from naphtha?	4	1
5. Differentiate between a monomer and a polymer with examples.	4	3

**Section – C (3\*10 = 30 Marks)**

Attempt any three questions:

	Marks	CO
1. Critically analyzed and evaluate the importance of petrochemical products in our life and the environmental Issues related to use of plastics	10	1
2. Name the basic petrochemicals and some derivatives, finished products produced from them.	10	3
3. How methanol is produced? Mention the uses of it along with its current production in India.	10	3
4. Analyze the difference between thermo-plastics and thermoset plastics with the examples; also give the uses of those.	10	2

**Section – D (3\*10 = 30 Marks)**

Attempt three questions, First question is compulsory

	Marks	CO
1. Analyzed and evaluate a petrochemical plant with its location, infrastructure, capacities of products produced and its global presence / business.	10	4
2. What is refinery and petrochemical integration? What are the driving factors for such integration and how it is useful for refineries as well as for the petrochemical plant?	10	2
3. Name petrochemical plants operating in the country and the total production of polymers. Also write about up-coming four PCPIRs.	10	1
4. Describe ethylene polymerization process. Name the three types of polyethylene and their uses.	10	3

.....XXXXXXXXXXXXXXXX.....