

- Q.26 Classify petrochemical.
- Q.27 Differentiate between C<sub>2</sub> & C<sub>3</sub> compound.
- Q.28 Write any one C<sub>4</sub> compound with its property & uses.
- Q.29 Discuss the process of manufacturing of butadiene.
- Q.30 What are Ester?
- Q.31 Explain octane number.
- Q.32 What is the raw material for petrochemical industry?  
Discuss.
- Q.33 Explain Ethylene acids.
- Q.34 What are the properties of Butanol?
- Q.35 Describe acrylonitrile.

#### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 List major petrochemical plant in India. Explain any one in detail with suitable diagram.
- Q.37 Classify C<sub>3</sub> compounds. Explain the major Engg. problems of the acetone during manufacturing.
- Q.38 Write short note on any two of the following
- Ethylene oxide
  - Formaldehyde
  - Alcohol
  - Major petrochemicals from petroleum

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#### 5th Sem / Chem Subject:- Petrochemicals Technology

Time : 3Hrs.

M.M. : 100

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Petroleum contains \_\_\_\_\_  
a) Asphalt                      b) Aromatic  
c) Optical                      d) All of the above
- Q.2 Which of the following is a Naphthene?  
a) Butane                      b) Butadiene  
c) Cyclohexane                d) Acetylene
- Q.3 LPG stands for \_\_\_\_\_  
a) Liquid petroleum gas  
b) Liquified petrol gas  
c) Liquid petrol gas  
d) Liquefied petroleum gas
- Q.4 The main aim of cracking is to produce \_\_\_\_\_  
a) Petroleum                    b) Gasoline  
c) Coke                          d) Lube oil

- Q.5 What is the molecular weight of methanol ( $\text{CH}_3\text{OH}$ )?  
a) 30                    b) 31  
c) 32                    d) 33
- Q.6 What is the aniline point of high speed diesel?  
a)  $50^\circ\text{C}$                     b)  $70^\circ\text{C}$   
c)  $90^\circ\text{C}$                     d)  $110^\circ\text{C}$
- Q.7 Octane number depends upon \_\_\_\_\_  
a) Performance no.    b) Cetane no.  
c) Kuri-butanol no.    d) None
- Q.8 Which of the following is not used for the manufacture of acetone?  
a) Oxidation of butane  
b) Oxidation of propylene  
c) Catalytic hydrogenation of iso propanol  
d) Hydration of propylene
- Q.9 Which is the first stable compound in  $\text{C}_4$ ?  
a) Oxaloacetic acid    b) Aldehyde  
c) Lactone                d) None
- Q.10 What is the IUPAC name of the monomer of polychloroprene?  
a) 2-chloro-1,3-butadiene  
b) 3,4 diechlorobut-1ene  
c) 1-chloro-1,3-butadiene  
d) None

## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Write formula of API gravity.  
Q.12 Mention any one property of ethanol.  
Q.13 Name any one plant of petrochemical in India.  
Q.14 Expand CNG.  
Q.15 Is alkanes contain single bond?  
Q.16 Write the name of  $\text{C}_3$  compounds.  
Q.17 Write one uses of petrochemical.  
Q.18 What is the formula of viscosity.  
Q.19 Name any one manufacturing process of formaldehyde.  
Q.20 Mention any one property acetone.

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Define petrochemical.  
Q.22 Write a note on naphtha cracking.  
Q.23 Describe IUPAC naming of alkanes.  
Q.24 What are the problems during manufacturing of methanol?  
Q.25 Draw neat flow sheet of manufacturing process of vinyl chloride.