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220553

Roll No.

5th Sem.

Branch : Chemical

Subject : Petroleum Refining & Petrochemicals

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple Choice Questions. All Questions are compulsory. (6x1=6)

- Q.1 _____base crude oil is also called asphaltic crude. (CO1)
- a) Paraffinic b) Naphthenic
c) Mixed d) Aromatic
- Q.2 _____convert n-paraffins to i-paraffins. (CO1)
- a) Alkylation b) Polymerisation
c) Isomerisation d) None of these
- Q.3 Aniline point is a property of the (CO2)
- a) Diesel b) LPG
c) Naphtha d) Gasoline
- Q.4 Butadiene is a/an (CO4)
- a) Di-Olefin b) Naphthene
c) Aromatic d) Olefin
- Q.5 H_nH_{2n} is the general formula for (CO2)
- a) Olefins
b) Naphthenes
c) Both (A) and (B)
d) Neither (A) nor (B)

- Q.6 Hydrofining is the most recent and effective methods for the (CO2)
- Removal of sulphur
 - Improvement of smoke point
 - Reduction of breathing loss
 - Improvement of viscosity index

Section-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Write full form of LPG. (CO1)
- Q.8 Write the uses of Butadiene. (CO4)
- Q.9 Write the name of any one theory of origin of petroleum. (CO1)
- Q.10 Name one chemical derived from acetylene. (CO4)
- Q.11 Name any one chemical derived from Butenes. (CO4)
- Q.12 What is cloud point. (CO2)

Section-C

Note: Short answer type Question. Attempt any eight questions out of Ten Questions. (8x4=32)

- Q.13 Write uses of any one C1 compound. (CO4)
- Q.14 Explain manufacturing process of butadiene. (CO4)
- Q.15 Explain the process of vinyl chloride. (CO4)
- Q.16 Write about pre treatment of petroleum. (CO1)
- Q.17 Discuss about octane and cetane number. (CO2)
- Q.18 Explain the reforming and its type. (CO3)
- Q.19 List major petrochemical plants in India. (CO1)

- Q.20 Discuss the Refinery product uses. (CO1)
- Q.21 Explain about vacuum distillation with products. (CO1)
- Q.22 With flow sheet, discuss about petroleum refinery. (CO1)

Section-D

Note: Long answer questions. Attempt any two question out of three Questions. (2x8=16)

- Q.23 Define cracking? With flow sheet, explain the process of fluidised bed catalytic cracking. (CO3)
- Q.24 Explain the manufacturing process of Ethanol with its formula and its properties. (CO4)
- Q.25 Write short note on:
- Desalting of crude oil (CO1)
 - Properties of Phenol and Styrene (CO4)