

Q.24 Discuss the properties of C₂ Compounds, with a focus on vinyl chloride, including its properties, flow sheet and industrial uses.

Q.25 Write short note on any three:-

- a) Petrochemical - Raw material and its product.
- b) Ethanol
- c) Classify Petroleum
- d) IUPAC naming for any functional group

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Roll No.

6th Sem.

Branch : Chemical (Pulp & Paper)

Sub.: Petroleum Technology & Petrochemical

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 Which process is used for purifying petroleum products?
- a) Dehydration b) Dewaxing
 - c) Desulfurization d) All of the above
- Q.2 What is the raw material primarily used in the petrochemical industry?
- a) Gas b) Crude Oil
 - c) Coal d) Water
- Q.3 Which one is the C₂ compound?
- a) Methanol b) Vinyl Chloride
 - c) Phenol d) Acetone
- Q.4 What is the importance of safety measures in the chemical industry?
- a) Reduces costs
 - b) Prevents accidents and injuries
 - c) Increases production rate
 - d) Enhances product quality

- Q.5 Which of the following is a primary use of butanol?
- Solvent in paints and coatings
 - Fuel additive
 - Production of butadiene
 - All of the above
- Q.6 What is the IUPAC name for the compound $\text{CH}_3\text{-CH}_2\text{-OH}$?
- Methanol
 - Ethanol
 - Propanol
 - Butanol

SECTION-B

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

- Q.7 What is the primary purpose of refining the petroleum is to_____.
- Q.8 The major engineering problem in methanol production is _____.
- Q.9 Acetone is used extensively as a _____.
- Q.10 The functional group in an aromatic compound like phenol is _____.
- Q.11 The purpose of installing safety measures in chemical plants is to _____.
- Q.12 LPG stands for _____.

SECTION-C

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

- Q.13 Differentiate between C_4 and Aromatic compounds?
- Q.14 Write about the manufacturing of Butanol.
- Q.15 Illustrate about the fractional distillation of petroleum.
- Q.16 Explain about the importance of Safety in chemical industry.
- Q.17 With flow sheet, Explain about the manufacturing process of methanol.
- Q.18 Writes about the IUPAC naming of organic compound - alkyne and cyclic compounds.
- Q.19 Explains about the transportation of crude oil.
- Q.20 Discuss about the composition of Petroleum.
- Q.21 What is Petrochemical explain about its properties and uses.
- Q.22 Describes about the fire / explosion hazards in Chemical Industry and its prevention.

SECTION-D

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

- Q.23 Explain the manufacturing process of acetone, with flow sheet, raw material and process techniques.