

Q.24 Discuss the properties of C<sub>2</sub> 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

No. of Printed Pages : 4  
Roll No. ....

220662

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 C<sub>2</sub> 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 CH<sub>3</sub>-CH<sub>2</sub>-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<sub>4</sub> 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.