

- Q.27 Differentiate between C₂ & C₄ compound.
 Q.28 Define cyclic compound.
 Q.29 Describe naphtha cracking.
 Q.30 What are the properties of formaldehyde?
 Q.31 Make a flow sheet for making Ethylene dichloride
 Q.32 List various uses of C₃ compounds.
 Q.33 Write a note aldehydes & ketones group.
 Q.34 Differentiate alkanes & alkenes.
 Q.35 Write the properties of methanol.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 What is C₂ compound. Explain in detail manufacturing process of any C₂ compound with neat flow sheet.
 Q.37 Discuss various Engg. problems during manufacturing of C₄ compound.
 Q.38 Write short notes on any two of the following
 a) Butanol
 b) IUPAC naming
 c) Raw material for petrochemicals
 d) Refining of crude oil

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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 Choose any one petrochemical product
 a) Ethanol b) Vinyl chloride
 c) Acetone d) All of the above
- Q.2 What does the word petrochemicals signify?
 a) Mechanical based on rocks
 b) Chemical based on rocks
 c) Both a & b
 d) None
- Q.3 Main constituents of natural gas is _____
 a) CH₄ b) C₂H₂
 c) C₂H₄ d) C₂H₆
- Q.4 Which reagent is used to remove ketones, alkynes in methanol?
 a) Magnate b) Chromate
 c) Di-chromate d) Per magnate

- Q.5 What is the ideal pressure for the manufacturer of acetone by dehydrogenation of isopropanol?
- a) 50-100 atm b) 900-1000 atm
c) 250-350 atm d) 3-4 atm
- Q.6 What types of plants are C₄?
- a) Maize b) Sugarcane
c) Sorghum d) All of the above
- Q.7 What kind of synthetic rubber are commonly known as thiokol's?
- a) Polyurethane rubbers
b) Polysulphide rubber
c) Fluorocarbon rubber
d) Polyacrylic rubber
- Q.8 Write the IUPAC name of CH₃COOH
- a) Sulfuric acid b) Acetic acid
c) Nitric acid d) None
- Q.9 Which catalyst is used in direct oxidation of ethylene?
- a) Magnesium oxide b) Sodium Oxide
c) Silver oxide d) Manganese Oxide
- Q.10 How is industrial isopropanol manufactured?
- a) Hydration propylene
b) Fermentation of molasses
c) contact process
d) Linde's process

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SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Name any one petrochemical product.
Q.12 What is the IUPAC name of CH₄?
Q.13 Differentiate Petrol & diesel.
Q.14 Write the name of any C₃ Compound.
Q.15 Mention any one property of C₁ compound.
Q.16 Which apparatus is used to measure flash point?
Q.17 Expand API.
Q.18 What are styrene used for?
Q.19 Write the main application of butadiene
Q.20 Where carboxylic acid used?

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 List major petrochemicals from petroleum products.
Q.22 Write about IUPAC name of alkene along with functional group like alcohol
Q.23 What are the advantages of petroleum?
Q.24 Explain about Cetane number.
Q.25 Discuss the refining product uses.
Q.26 Write about aromatic compound over C₃ compound.

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