

- Q.27 Differentiate between C_2 & C_4 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 C_3 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 C_2 compound. Explain in detail manufacturing process of any C_2 compound with neat flow sheet.
 Q.37 Discuss various Engg. problems during manufacturing of C_4 compound.
 Q.38 Write short notes on any two of the following
- Butanol
 - IUPAC naming
 - Raw material for petrochemicals
 - Refining of crude oil

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Roll No.

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
- Ethanol
 - Vinyl chloride
 - Acetone
 - All of the above
- Q.2 What does the word petrochemicals signify?
- Mechanical based on rocks
 - Chemical based on rocks
 - Both a & b
 - None
- Q.3 Main constituents of natural gas is _____
- CH_4
 - C_2H_2
 - C_2H_4
 - C_2H_6
- Q.4 Which reagent is used to remove ketones, aldehydes in methanol?
- Magnate
 - Chromate
 - Di-chromate
 - 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 C_4 ?
- 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) Fluorocarb on rubber
d) Polyacrylic rubber
- Q.8 Write the IUPAC name of CH_3COOH
- 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 CH_4 ?
- Q.13 Differentiate Petrol & diesel.
- Q.14 Write the name of any C_3 Compound.
- Q.15 Mention any one property of C_1 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 C_3 compound.

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