

Q.22 Explain the manufacturing process of ethanol.
(CO4)

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SECTION-D

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

Q.23 Define reforming process? With flow sheet, explain the catalytic reforming process in detail. (CO3)

Q.24 Explain the manufacturing process of phenol with its formula and its properties. (CO4)

Q.25 Write short note on any two:

a) Octane number (CO2)

b) Major petrochemicals from petroleum products (CO1)

c) Origin of petroleum (CO1)

**5th Sem / Chemical
Subject : Petroleum Refining and Petrochemicals**

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Carbon percentage (by weight) in crude petroleum may be about (CO1)

a) 65 b) 75

c) 85 d) 95

Q.2 Catalyst used in catalytic reforming is (CO3)

a) Platinum on alumina

b) Nickel

c) Iron

d) Aluminum chloride

Q.3 Cetene number of diesel used in trucks may be about

a) 50 b) 14 (CO2)

c) 35 d) 85

- Q.4 Cracking is (CO3)

 - a) An exothermic reaction
 - b) An endothermic reaction
 - c) Favoured at very low temperature
 - d) None of these

- Q.5 Crude oil produced by Indian oil fields is predominantly _____ in nature. (CO2)

- a) Paraffinic
 - b) Naphthenic
 - c) Asphaltic
 - d) Mixed base

- Q.6 Flash point an oil is determined by the (CO2)

 - a) Pensky Martens apparatus
 - b) Ramsbottom apparatus
 - c) Saybolt viscometer
 - d) Conradson apparatus

SECTION-B

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

- Q.7 Write chemical formula of methanol. (CO4)
Q.8 Write chemical formula of Ethane. (CO4)

- Q.9 What is cetane number. (CO1)

Q.10 Define petrochemical technology. (CO1)

Q.11 Write two properties of butanol. (CO4)

Q.12 Define Crude oil. (CO1)

SECTION-C

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

- Q.13 Discuss the major petrochemicals from petroleum products. (CO1)

Q.14 Write about properties and significance of petroleum products. (CO1)

Q.15 Differentiate between thermal and catalytic cracking. (CO3)

Q.16 Write about flash and fire point. (CO2)

Q.17 With flow sheet, discuss about ethanol. (CO4)

Q.18 List major petroleum and petrochemical plants in India. (CO1)

Q.19 Write uses of any one C3 compound. (CO4)

Q.20 Write properties of aromatic compounds. (CO4)

Q.21 Discuss about Aniline point. (CO2)