

- Q.28 Write about the IUPAC naming of Alkynes, Cyclic compounds.
- Q.29 Discuss Properties & Manufacturing process of ethanol
- Q.30 Write about the Refinery product uses.
- Q.31 Explain the Products of fractional distillation of crude oil and their boiling ranges.
- Q.32 What is distillation and its type?
- Q.33 With Flow sheet, discuss about the Methanol.
- Q.34 Write about composition of crude oil.
- Q.35 Explain properties of Petrochemical and its products.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. $(2 \times 10 = 20)$

- Q.36 Discuss the manufacturing of acetone with neat and clean flow sheet, properties and uses.
- Q.37 Explains the manufacturing about phenol with its formula and its properties.
- Q.38 Write short note on any three:-
- Major petrochemicals from petroleum products
 - Petrochemical
 - C₁ Compound
 - Crude oil and their boiling ranges.

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5th Sem / Chemical Engg (P & P)
Subject:- Petroleum Refining & Petrochemicals

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory $(10 \times 1 = 10)$

- Q.1 Natural gasoline is produced
- From oil wells
 - In oil refineries
 - By natural gas stripping
 - None of these
- Q.2 Which of the following contains maximum sulphur?
- Diesel
 - Petrol
 - Kerosene
 - Fuel oil
- Q.3 Petroleum
- Is optically active
 - Constitutes mainly of olefins
 - Does not contain asphalt
 - Does not contain aromatics
- Q.4 Aniline point of the diesel is a measure of its _____ content.
- Aromatic
 - Paraffin
 - Olefin
 - Naphthene

- Q.5 In case of liquid petrofuels, momentary combustion is observed at its

 - Flash point
 - Preheating temperature corresponding to viscosity of 25 centistokes
 - Flame temperature
 - Fire point

Q.6 Hydrogen percentage (by weight) in crude petroleum may be about

 - 5
 - 15
 - 25
 - 35

Q.7 Liquefied Petroleum gas (LPG) is mainly a mixture of

 - Propane & butane
 - Methane & ethane
 - High boiling olefins
 - High boiling naphthenes

Q.8 Which is almost absent in crude petroleum?

 - Olefins
 - Mercaptans
 - Naphthenes
 - Cycloparaffins

Q.9 Which of the following is a Naphthene?

 - Butene
 - Butadiene
 - Cyclohexane
 - Acetylene

Q.10 Which of the following has the highest flash point of all ?

 - Diesel
 - Kerosene
 - Petrol
 - Furnace oil

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define flash point?
 - Q.12 Name any one property of methanol?
 - Q.13 Write two uses of wax.
 - Q.14 Name any one refinery in India.
 - Q.15 What is aromatic compound?
 - Q.16 Write full form of specific gravity.
 - Q.17 Write one use petrochemical?
 - Q.18 Write full form of LPG?
 - Q.19 What is crude oil?
 - Q.20 What is application of diesel?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Write the difference between cloud and pour point.
 - Q.22 Write about transportation of crude oil and its products.
 - Q.23 Discusses Manufacturing process, Flowsheet and major engg. Problem of Vinyl Chloride.
 - Q.24 Difference between C₂ and C₄ compound.
 - Q.25 Discuss about petroleum.
 - Q.26 Discuss about Purification of petroleum products.
 - Q.27 Explain about Manufacturing process, Flowsheet of Butanol.