

- 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. (2x10=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.

No. of Printed Pages : 4

180651

Roll No. ....

### 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 (10x1=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 C<sub>2</sub> and C<sub>4</sub> compound.
- Q.25 Discuss about petroleum.
- Q.26 Discuss about Purification of petroleum products.
- Q.27 Explain about Manufacturing process, Flowsheet of Butanol.