

- Q.25 Describe solvent extraction process in brief.
- Q.26 Describe the refining of petroleum with a neat diagram
- Q.27 Explain classification of crude oil
- Q.28 Write the scope of petroleum industry in India
- Q.29 Name important chemicals derived from Methane and state their uses.
- Q.30 Explain the function of tube steel furnace
- Q.31 Describe manufacturer of syntheses gas
- Q.32 Explain the hydration of crude oil with neat diagram
- Q.33 Discuss properties and specification of kerosene oil.
- Q.34 With one example explain the process of reforming
- Q.35 Write properties and uses of Diesel

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Discuss about pretreatment of crude oil, Explain various pretreatment methods of crude oil in detail with the neat sketch
- Q.37 Explain cracking and its types, Discuss any one catalytic cracking process in detail with neat and clean sketch
- Q.38 Discuss the manufacturing of phenol from cumene with neat and clean sketch

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Roll No. ....

#### Chemical

#### Subject:- Petroleum and Petrochemical Tech.

Time : 3Hrs.

M.M. : 100

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 What is the primary component of crude oil?
- a) Sulfur                      b) Carbon
- c) Hydrogen                d) Nitrogen
- Q.2 How is crude oil separated?
- a) Crystallization
- b) Fractional distillation
- c) Decantation
- d) Sublimation
- Q.3 Which of the following is not used as a lubricant?
- a) Lubricating oil        b) Grease
- c) Asphalt                d) Petroleumjell
- Q.4  $C_nH_{2n}$  is the general formula for
- a) Olefins                      b) Napthenes
- c) Both A & B                d) Neither a nor b
- Q.5 Flash point of a liquid petroleum fuel gives an idea about its

- a) Volatility
  - b) Explosion hazard characteristics
  - c) Nature of boiling point diagrams
  - d) All of these
- Q.6 Flash point of an oil is determined by the
- a) Pensky Martens apparatus
  - b) Ramsbottom apparatus
  - c) Saybolt viscometer
  - d) Conradson apparatus
- Q.7 Liquefied Petroleum Gas (LPG) is mainly a mixture of
- a) Propane and butane    b) Methane and ethane
  - c) High boiling olefins    d) High boiling olefins
- Q.8 The main aim of cracking is to produce
- a) Gasoline                      b) Coke
  - c) Lube oil                      d) None of these
- Q.9 The L.P.G stands for
- a) Liquid petroleum gas
  - b) Liquified petrol gas
  - c) Liquid petroleum gas
  - d) All of these
- Q.10 Cracking is a \_\_\_\_\_ Reaction
- a) Endothermic                  b) Exothermic
  - c) Both A & B                  d) Photovoltic

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## SECTION-B

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

- Q.11 Write the practical utility of fire point.
- Q.12 Write the name of any C1 compound
- Q.13 Write the Chemical formula of ethylene Name any two refinery of India
- Q.14 Name one chemical derived from acetylene.
- Q.15 Write any one name of theory of origin of petroleum
- Q.16 Write the percentage of carbon in petroleum
- Q.17 Cetane number is the property of \_\_\_\_\_ (Diesel / Petrol)
- Q.18 Write full form of VDU
- Q.19 Define Alkylation
- Q.20 Name any two refinery of India.

## SECTION-C

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

- Q.21 Describe the important petrochemical feedstock in brief.
- Q.22 Write important uses of petrol.
- Q.23 Discuss exploration of crude oil in brief.
- Q.24 Define Flash point and write its practicality utility

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