

Homework
Class O-III
Subject: Chemistry

NOTE: Write down answers of the following questions on your notebook.

Chapter: 22

- Write down the structural formulae of pentane and butane.
- Draw the possible isomers of butane, pentane and hexane.
- How do the physical properties of alkanes change with increase in number of carbon atoms?
- How methane and butane undergo combustion? Give Equations as well.
- What are alkenes? Give their general formulae.
- Write down the structural formulae of propene, butene and pentene.
- Draw all possible isomers of pentene and butene.
- Explain dot-cross bonding model in ethane and ethene.
- How alkenes undergo addition reaction with hydrogen? Give necessary conditions.
- How is hydrogenation useful to us?
- How bromine is added in alkenes? Give reactions.
- How is bromination useful to us?
- How steam is added into ethene? Give reaction and necessary conditions.
- What is addition polymerization?
- What is cracking? Give its importance.
- Compare the properties of alkanes and alkenes.
- Solve structured questions in your notebooks. (Page: 447)

Chapter: 23

- What are alcohols? Give their general formulae.
- Draw the structural formulae of butanol and pentanol and draw all possible isomers.
- How physical properties of alcohols change down the series?
- Give Combustion reaction of alcohol. Give equation for the reaction
- How ethanol is oxidized give the name of product form?
- How is the combustion of alcohols useful to us?
- How ethanol is manufactured from ethene?
- How ethanol is manufactured by fermentation?
- What are the steps taken during fermentation?
- Why an alcoholic drink turns sour if it is kept in open air for few days?
- What are the uses of ethanol?
- What are carboxylic acids?
- Write down the structural formulae of methanoic acid, ethanoic acid, propanoic acid and butanoic acid.
- How boiling points of carboxylic acids change down the series?
- Carboxylic acids are generally weak acids why?
- How carboxylic acids reacts with metals, carbonates and alkalies?
- How carboxylic acids are prepared in lab.
- What is esterification?
- How esters are named?
- Give the reaction, structural formula and necessary conditions for the following reaction:

Methanol + Ethanoic acid ----->

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