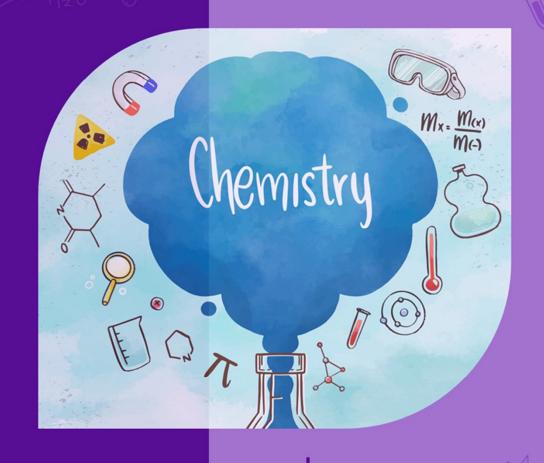
**CLASS 10 ACADEMIC PROGRAM 2020** 

# **CHEMISTRY**

**LECTURE** : C-30

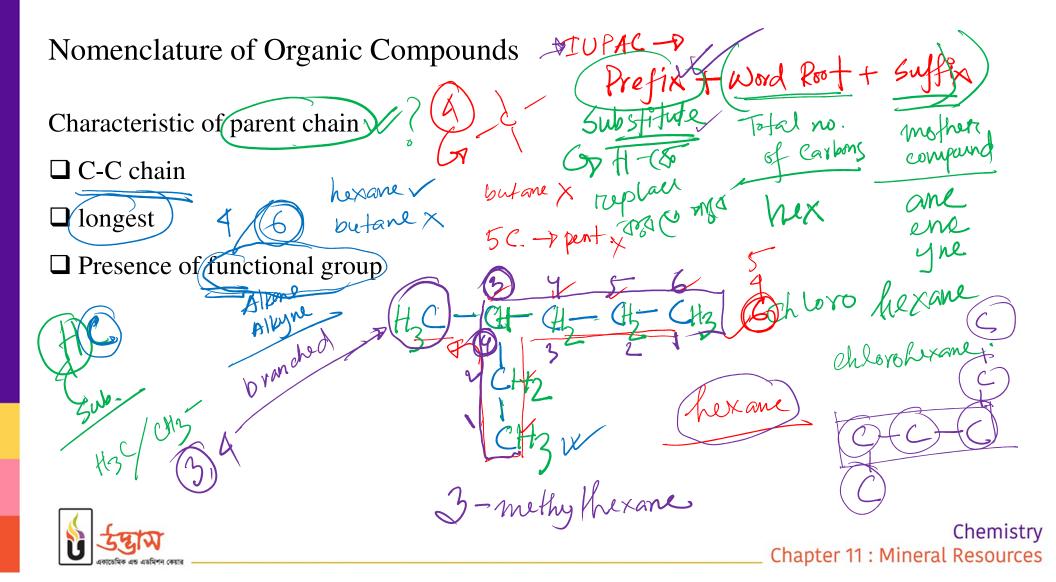
**CHAPTER 11: MINERAL RESOURCES** 

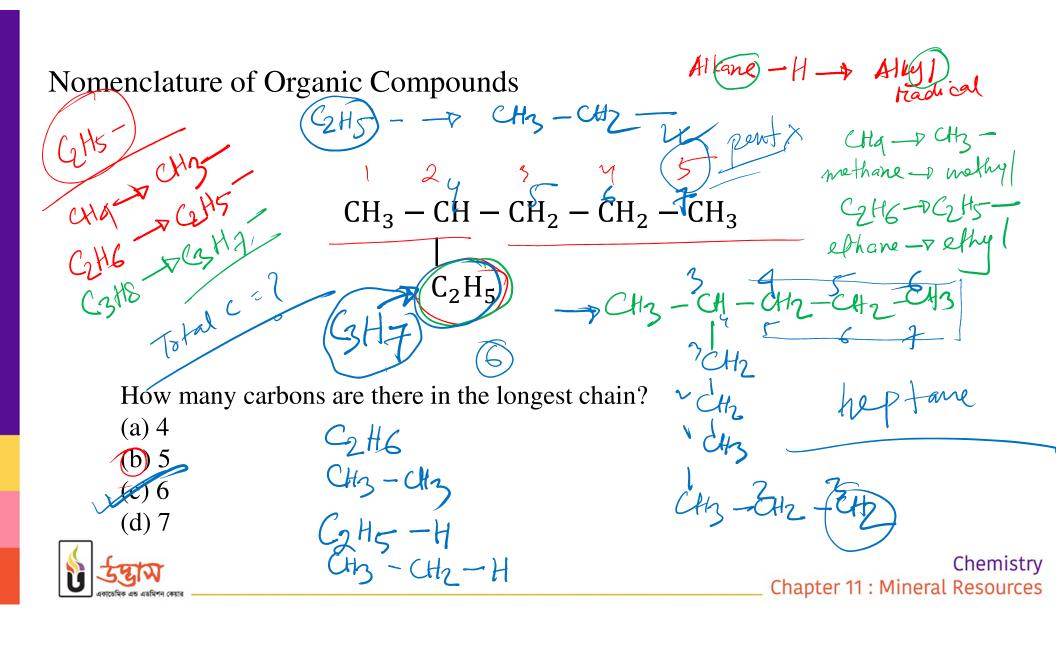
nomen clature of Organic Compound Sadat Ahmod Dippo



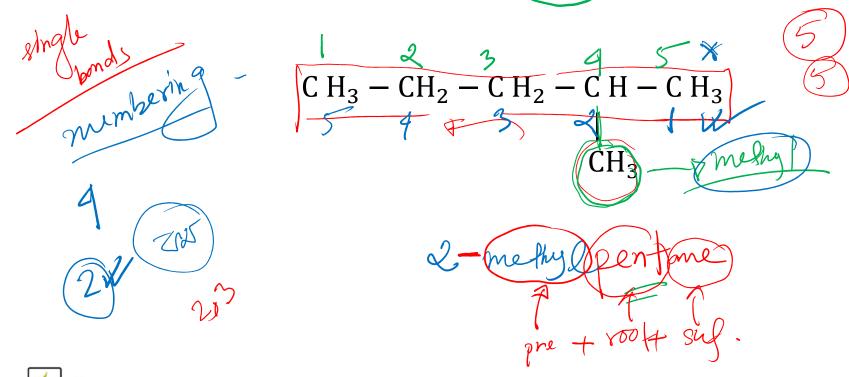


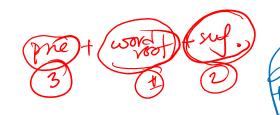
www.udvash.com





In case of naming branched alkanes, at first the longest chain is determined





☐ If more than one side chains are attached with more than one carbons, then their names will be mentioned in

alphabetical orders

1,2,3,4 - telyachoro

2,2,2-tricholoro

☐ Hyphen (-) is given between number and words and if there is more than one number comma (,) is given

between them.

Ingest 13

 $CH_3$   $C_2H_5$ 

 $-CH_2$   $-CH_2$   $-CH_3$ 

dimothy!

her one

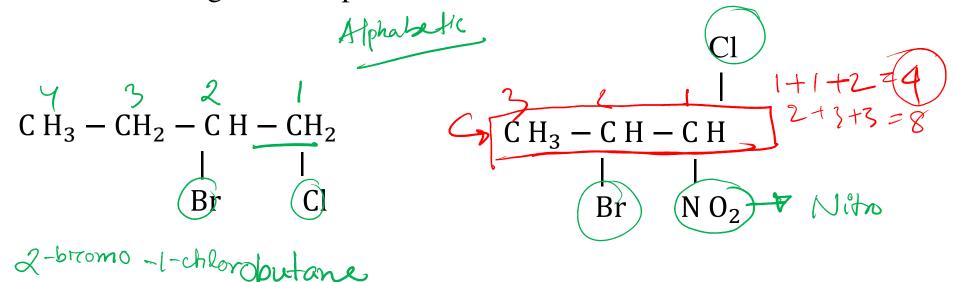
4-ethyl - 2,2-dinashylhexane

Chemistry

Chapter 11 : Mineral Resources

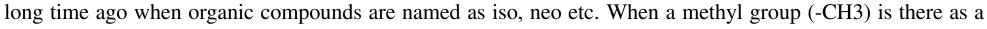
$$\begin{array}{c} C H_3 - CH_2 - C H - CH_2 - CH_2 - CH_3 \\ \hline Br \end{array}$$



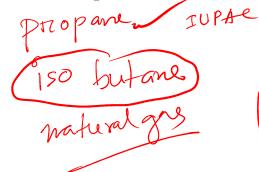


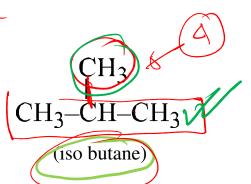
2-brono-1-chloro-1-nitro/propane

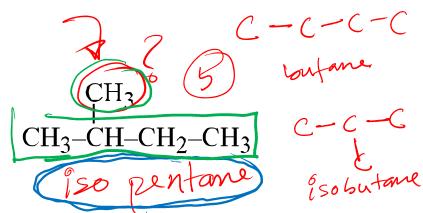




branch the compound is named as iso. like,

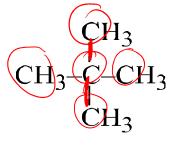






if there are two methyl groups with the same carbon as branches in that case it is named as neo. like,

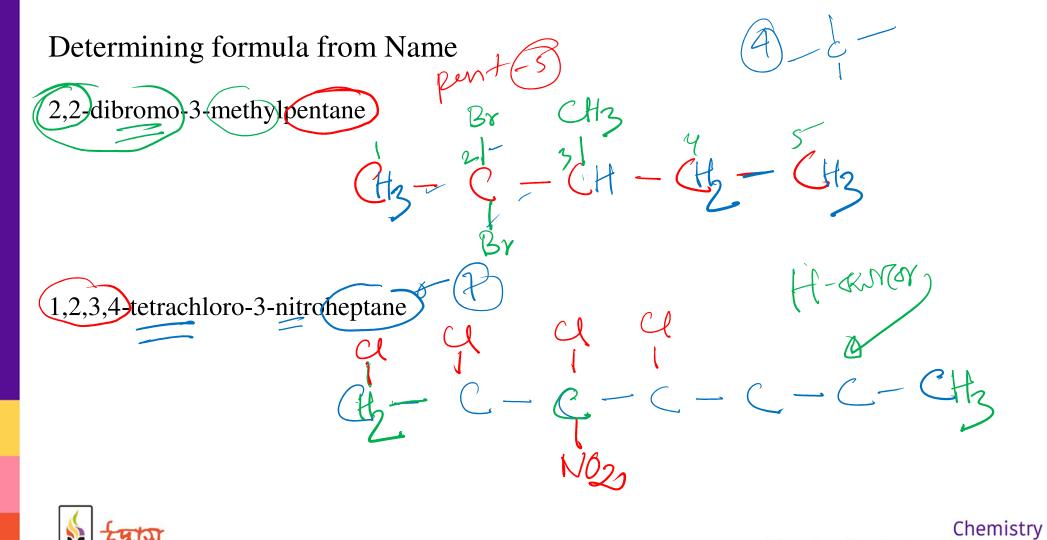
C-C-C-C C-C-C-C



neo Pentane 2-methylbutane

Chemistry

Chapter 11 : Mineral Resources



Chapter 11 : Mineral Resources

#### Naming of alkenes

01. 'ene' is written after the name of the compounds

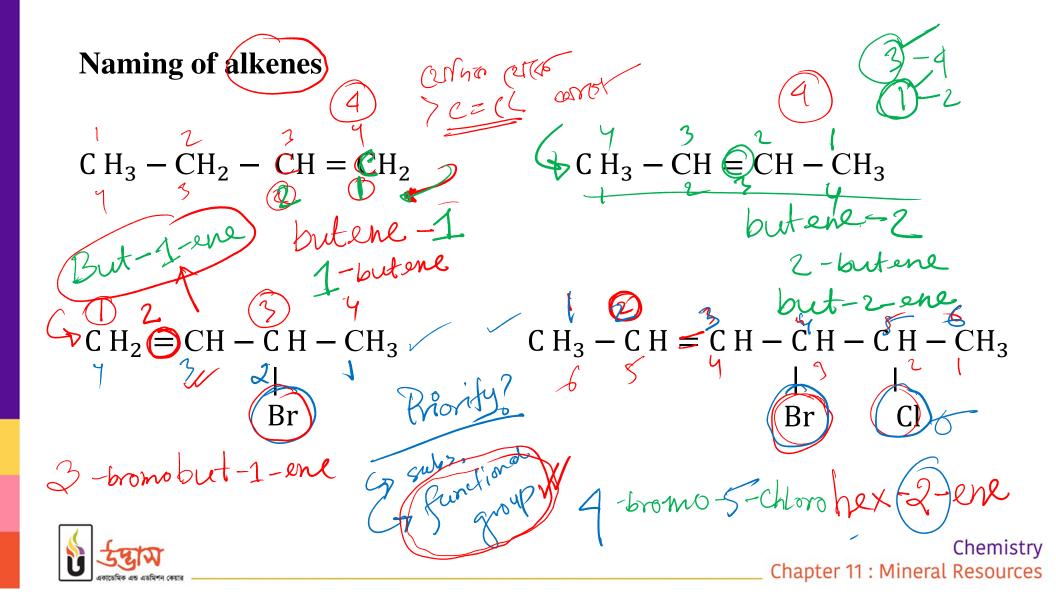
02. Including the carbon carbon double bond the longest chain is considered the main chain.

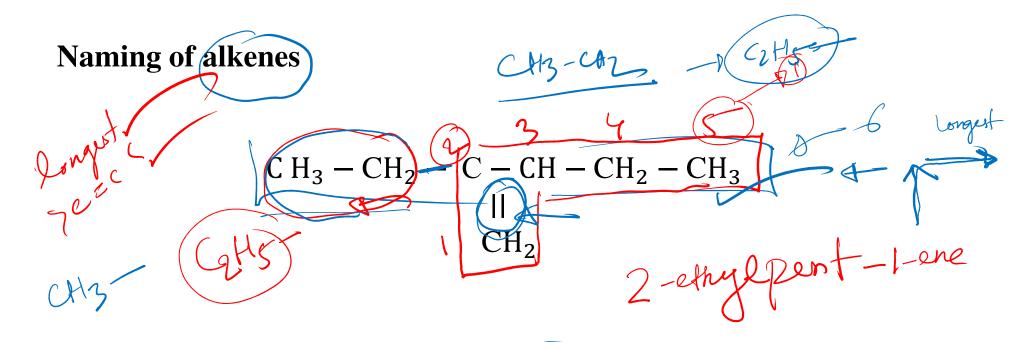
03. The parent chain is selected in such a manner that all the side chains must be directly connected to the parent chain. This implies that none of the side chains will have additional branches.

04. The carbons in the main chain are numbered. Numbering is started from where the carbon carbon

double bond is near







How many carbons are their in the parent chain of the compound?

$$C - C - C - C - C - C - C$$



#### Naming of alkenes

diene

CH<sub>3</sub> - CH = CH - CH - CH<sub>3</sub>

Chiles Many

4-bromo-6-chlorohept-2,4-diene

#### Naming of alkynes

- 01. Yne will be their after the names of each compounds.
- 02. Keeping carbon carbon triple bond included ( $-C \equiv C -$ ) the longest chain is taken as the main chain.
- 03. Rest of the rules similar to alkene



#### Naming of alkynes

$$CH_{3}-CH_{2}-C=CH$$

$$CH_{3}-C=C-CH_{3}$$

$$CH_{3}-C=C-CH_{3}$$

$$CH_{3}-C=C-CH_{3}$$

$$CH_{3}-C=C-CH_{3}$$

$$CH_{3}-C=C-CH_{3}$$

$$CH_{3}-C=CH_{3}$$

$$CH_{3}-CC=CH_{3}$$

$$CH_{3}-CC=CH_{3}$$

$$CH_{3}-CC=CH_{3}$$

3-bromobut-1-yne

4-bromo-5-chlorohex-2-yne



#### Naming of alkynes

$$C H_3 - C \equiv C - C \equiv C - C H - CH_3$$

$$Cl$$

What will be the name of the compound?

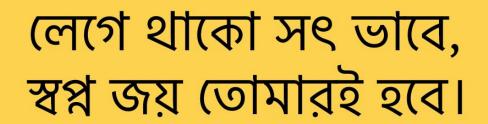
(a) 2-chlorohept 43,5-diyne

(b) 6-chlorohept (2,4)-diyne



Naming of alcohols Butanol-2
but 2 ol







www.udvash.com