1.

BONDING & GENERAL CONCEPTS

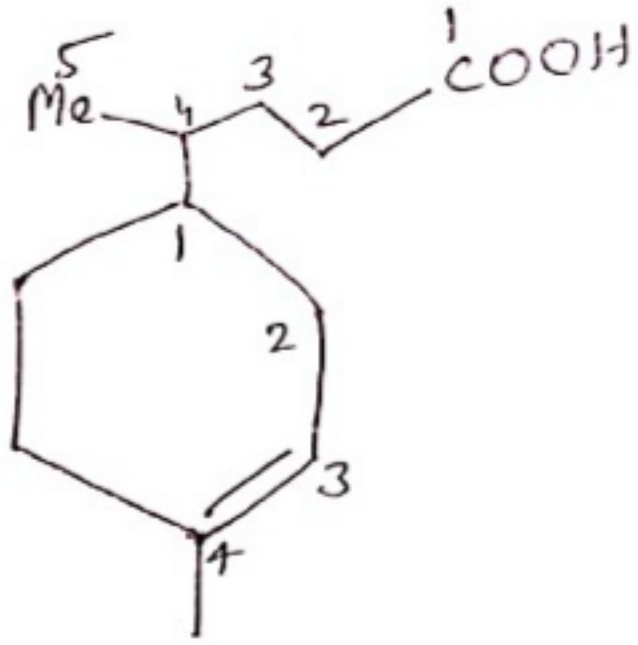
DEG-I (H) , SESSION 2020-23

PAPER-II , GROUP-B ,CH-1 ,04/12/2020

Nomenclature of Alicyclic

3. ## Compounds Continued... Lecture-3

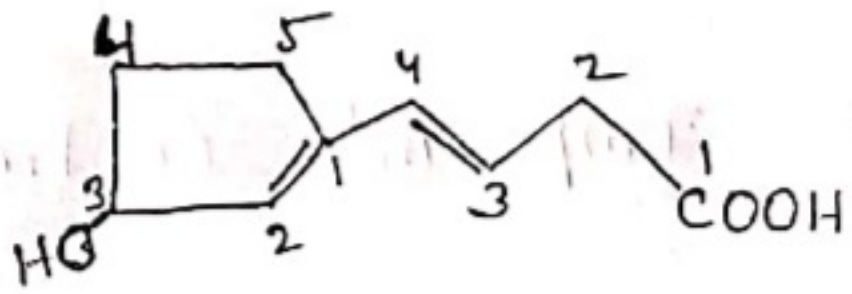
f) If the ring contains a multiple bond and the side chain contains a functional group, then the ring is considered the substituent and the compound is named a derivative of the side chain, eg.



4-(4-methylcyclohex-3-enyl) Pentanoic acid.

g) If the ring and side chain both contains functional groups, then

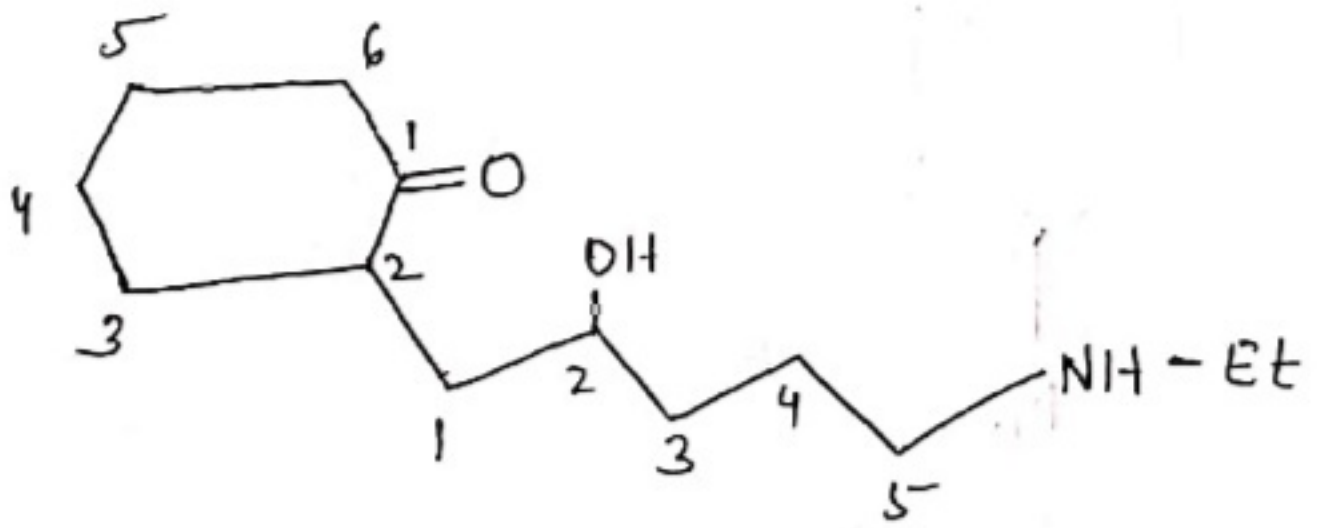
i) If the side chain contains higher priority of functional group (ie; $-COOH$, $\overset{O}{\overset{\|}{C}}$, then the compound is named the derivative of the side chain eg;



(Priority of $-COOH > -OH$)

4-(3-hydroxycyclopent-1-enyl)but-3-en-1-oic acid

ii) If the ring contains higher priority of functional group, then the compound is named the derivative of the alicyclic ring. e.g,

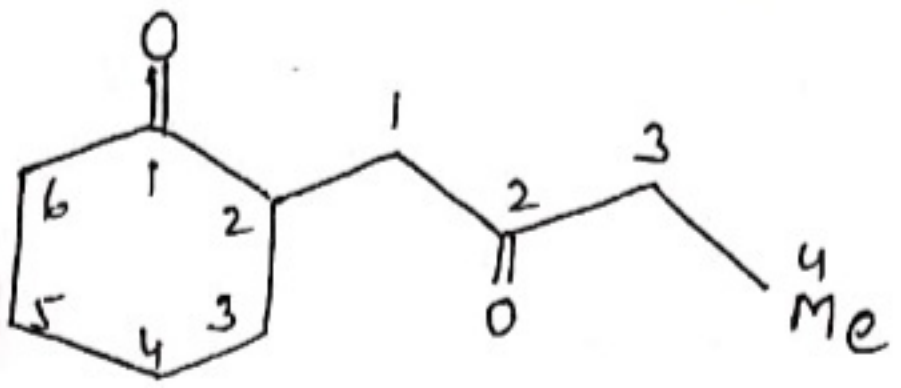


2-(5-Aminoethyl-2-hydroxypentyl)cyclohexan-1-one

Continued..

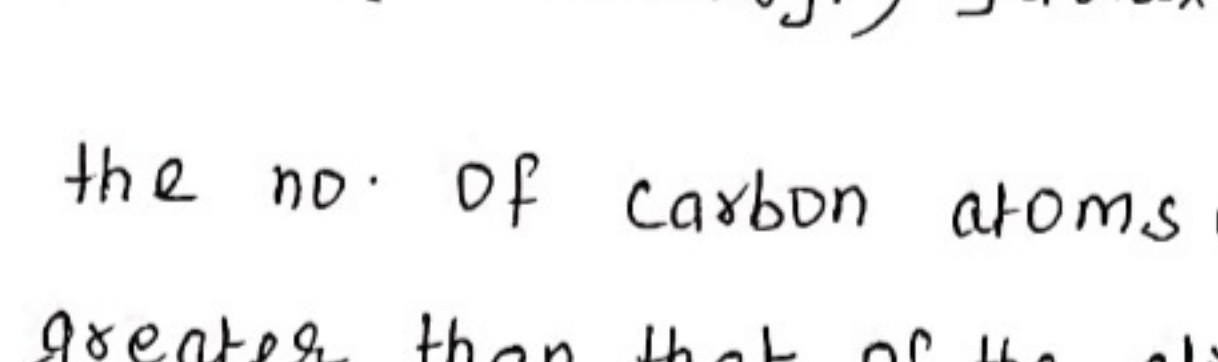
h) If both the side chain and the alicyclic ring contains the same functional group, then it is of two types,

i) If the no. of C-atoms of the alicyclic ring is equal or greater than that of the side chain, then it is named the derivative of the alicyclic ring, eg;



2-(2-oxobutyl) cyclohexan-1-one

ii) If the no. of carbon atoms of the side chain is greater than that of the alicyclic ring then it is named the derivative of the side chain, e.g;



8-(2-formylcyclohexyl) oct-6-en-1-al

To be continued in next lecture..

04 Dec.2020