- 2) Hydrolysis of Carbides
- 3) kolbes Exectrolysis.

HLKYNES:-

Mech: -?

(3) C-CH3 NANHO Ph-C=CNA! CH3I Ph-C=C-CH3 min no-of eq: 3 for 2 Eq; Ph-C=C-H 3 Ph-C=C Nat CH3 + Ph-C=C-Phy CH3 POLE : in R-C=C=NO obtained from weak acid; Hence, its mind set preferrebally acts as base rather than Nucleophile. Dith primary halides, so path is pre-dominant with secondary & is halides, to path is pre-dominant. in It gives nucleophilic addition compounds with Casbonyl compound NHyCI (aa) Halpd-Bason I NaNH > (excess) 2. CH3-I (1E2) 3. NHycl (ag) 4. Lindus Catalyst Na NH, (2EV) CH3-CH2-CH2-CH2= C-H Nanta (excess) CHS CH , THE CECONAT LOH (bund) 2 Eg CH3 - CH2 - CH2 - C. C - H

(3) nd arti addition takes place. Attition of X2:-81-60 -1 Not stereo specific but stereo selective Reaction with NBS:-CH3+C=C-H NBS I CH3-C=C-H Proparquic NBS borms also in propaggylic Reaction - DMD: (HgSa4/H2504(di)) Eg-1: H-C=C-H - Hgt2 H-C=C-H - H-F=C-H = H-C-CH3 CH3-C=C-H ---- CH3-C=CH2 = CH3-C-CH3 + in Ph-CEC-H ---- Ph-CM =CH2 --- Ph $CH_{3}-CH_{3}-c=C-CH_{3} \longrightarrow Major minor$ $C=C-CH_{3} \longrightarrow C=C-CH_{3} \longrightarrow Minor Min$ + Paqtial tre dossnot stabilised by hyper Conjugation, stabilised. by Inductive effect & Resonance. HBO :-CH3-C=CH - CH3-CH2-C-H Ph-(=c. H ---- Ph-(H2-C-H

Reason: Since, the stability of alkene is as follows:

PROPERTIES OF ALKYNES:

i)
$$cH_{5}-C=C-H$$
 $\frac{H-Br}{ROOR}$ ρ $\frac{H-Br}{ROOR}$ ρ $\frac{H-Br}{ROOR}$ ρ $\frac{H-Br}{ROOR}$

REACTIVITY TOWARDS ELECTRO-PHILIC ADDITION:

-> Due to High s-character, its difficult to donate TI-e-

- Forms Unstable intermediates.

NOTE:-

-) Due to Unstable Intermediates , ion-pair mechanisms are more brefloodle. Therfore, Sterco specifity looses, both cyn

CEC-OH --- H- E-G-H-2-072 FIRE HIP TOOHOUT POINT (oxaccard) woon Jarm Konof: - C=C-R-> R- C-C-R-> 2R-GOO Hold , 1014 P-C=C-H -> RCOOK+CO2 : " + 111 / " 1114 H-C=Grider () 2007. CHICLES ... OTE - 12 sine la san princest oso- desinoti readt pirth! alkyne R-CO3H: NO RXn with allegne ... con bene: H-C=C-H CH2H-NUCLEOPHILLS ADDITIONS:-C=c > 1 c=2. more s- character (stable () CH3-CH = C-CM3 med of ENS HOEN THE TOCHES ... HE .. CH3-CHX=OCH = CH13 III . 8) N=C CN/H-C=N N°C H CH
CN/H-C=N N°C C C-C-CH
N°C CN/H-C=N N°C CN
N°C CN/H-C=N N°C CN/H-C-N N°C CN/H-C-FLECTRO-PHILIC SUBSTITUTION REACTIONS:- CH3-C=C-H Na OCI) CH3-C=C-CI CH2-C=C-H I) CH3-C=C-I H- (=(-H -T) I-. (= (-]

-) No reasonangement & anti-magkonikov product b) DEONOLYSIS:-

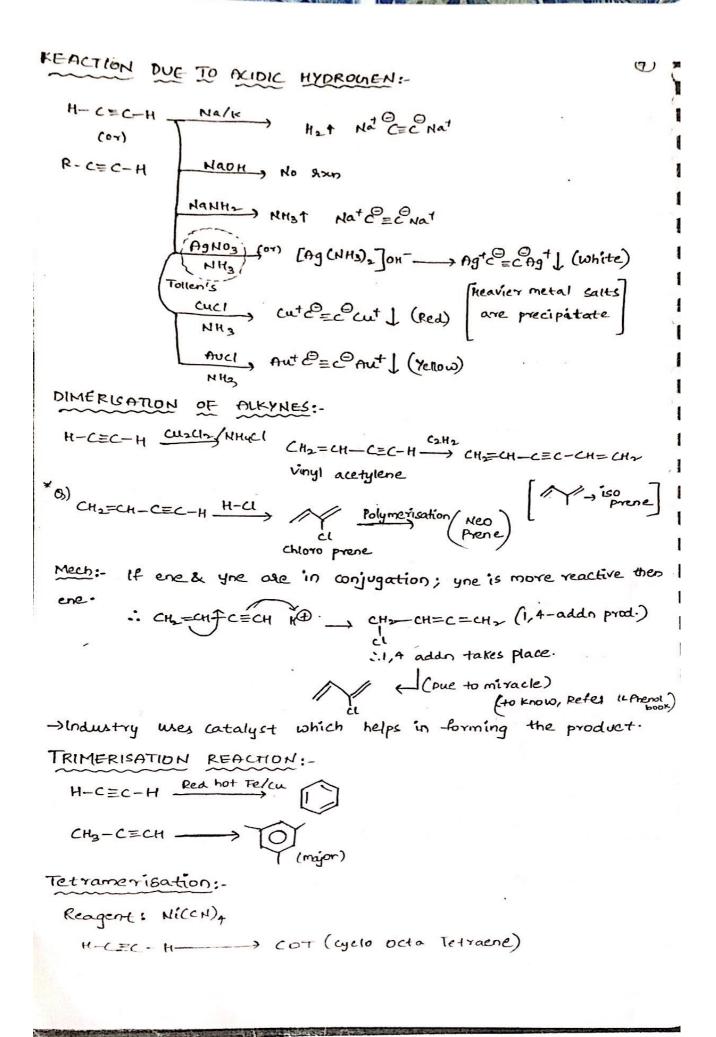
$$C = C \xrightarrow{D_3}$$
, $C \xrightarrow{} O$ otomolde.

cuse ii : Reductive ozonolysis

Case (i): Oxidative Dronolysis.

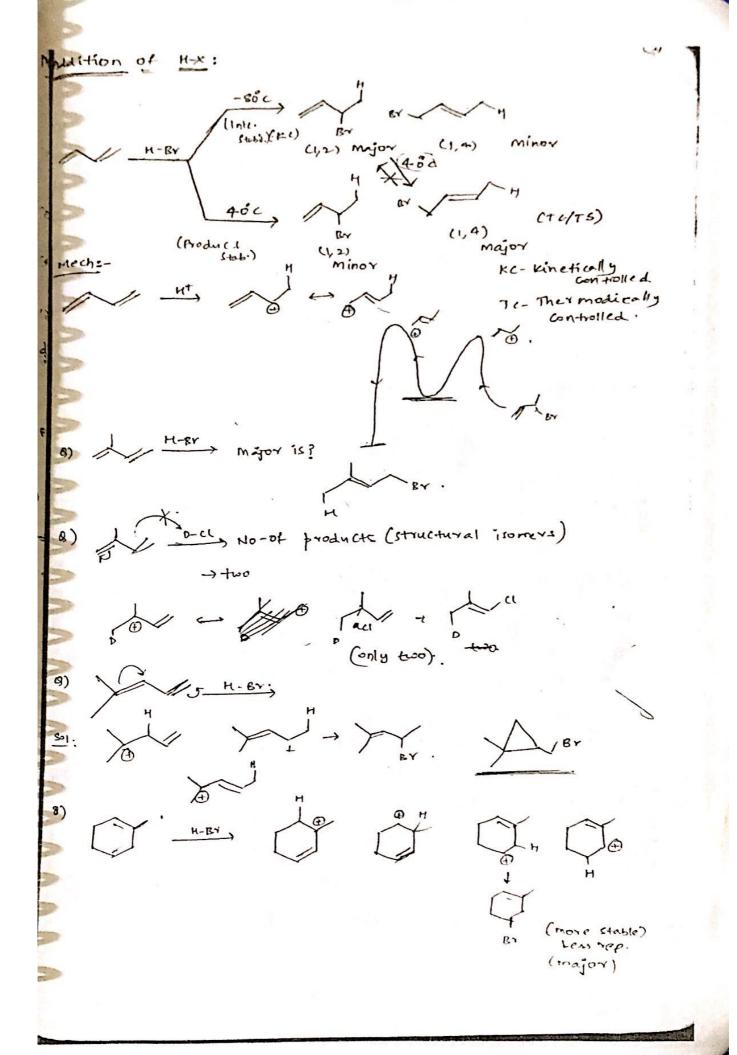
$$R-C$$
 $C-R$
 O
 O

7) Rayer's Reagent:



(addition of water bollowed by oxidation)

Reagent wed to distinguish	C-c-c-c	c-c =c-c	C-C-CECH	e-c=c-c
Na/K	-ve	-ve	+26	-ve
Nan H2	_	-	+	
Naoh	_ 1	_	-	-
AgNO NH3		-	+	12
Brol col4	_	+	+	+
Bayers reagent	_	+	+	+
and the same of th	Total Control of the			



DIENES:-A" - Thene . (CH2- C= CH2) lupac name of A is: ? BY CH2 CH= CH-CH2 BY (1A-elemination) 2) BY-CH2-CEC-CH2-BY tn CH2= C=C=CH2 (1, A. slimination). 1 3) Na/ig. NH: - Conjugated Systems are reduced to unconjugated TI - bonds . Hint:-CÓDH (Birch observation) Note: +M groups -> product obtained with ipso: unsaturation -M groups =) product obtained with ipso saturation. 9) ochr PROPERTIES OF DIENES:isolated cummulated

Stability: 0,0 >0> (1)

