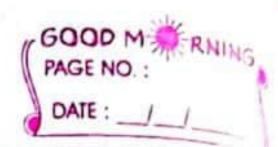


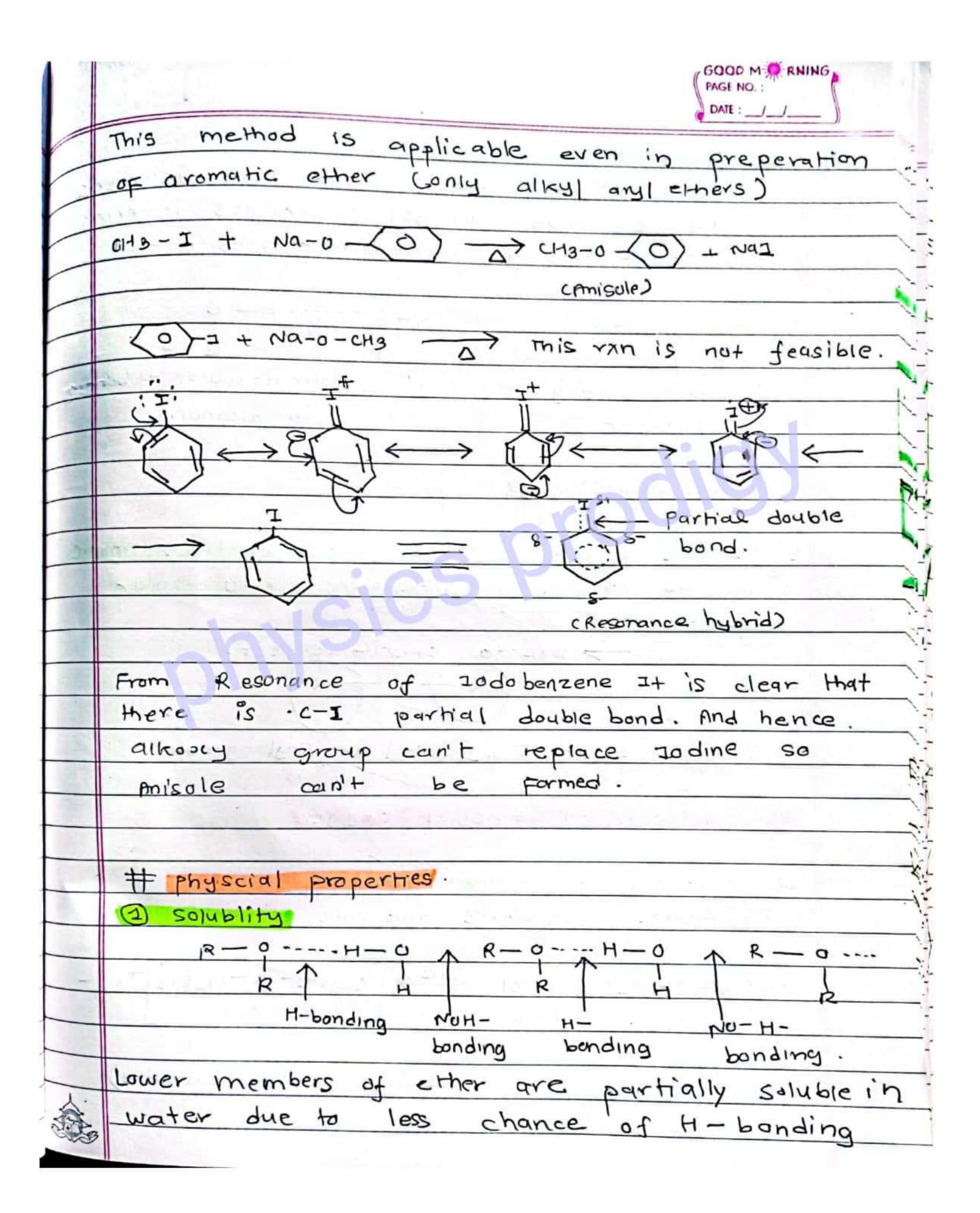


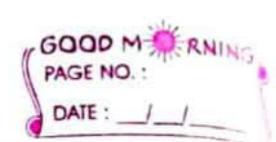
			FAGE NO. :		
#	Nomenclature :-		DATE :/		
1>					
	The this suction				
	91001 00010 100 111				
	Simple ether the prefix di- is added to the name of				
	the Critical tries	prefix di- is added	to the name of		
	amy any	group. (Alkyl ether)			
27	TUPAC SUCLES D				
	Iupac system - Etners are named as alkaxy alkane. In mixed ether, the smaller alkyl group with oxygen is taken as aller alkyl group with oxygen				
	- Citiety 4	ne smaller alkyl am	10 with axua-i-		
	as alk	and the larg	er alkyl group		
	determines the	parent alkane.			
	The position of alkoxy group is				
	indicated by sen	al number of carbo	on atom to		
	which the alko	y aroup is linked.			
	Compound	Common name	IUPAC name		
17	CH3-0-CH3	Di-methyl ether	methoxy methane		
2>	CH3-0-C2H5	Ethyl methyl ether	methoxy ethane		
3>	CZH5-0-CZH5	Di-ethyl ether	Ethoxy ethane		
ч>	CH3-0-CH2 CH2CH3	methyl n-propylether	1-methoxy propane		
5>	CH3-0- CH-CH3	methyl iso-propyl	2- methoxy propane.		
	CH3	ether.			
6>	(1)-0-CH3	methylphenyl ether	methoxy benzene		
		(misole)			
	(O)-0-CH2CH3	Ethyl phenyl ether	Ethoxy benzene		
		(phonetale)	S IV II B F I C		
	1000	orphenyl ether	phenoxy benzene.		
C. C.					

.

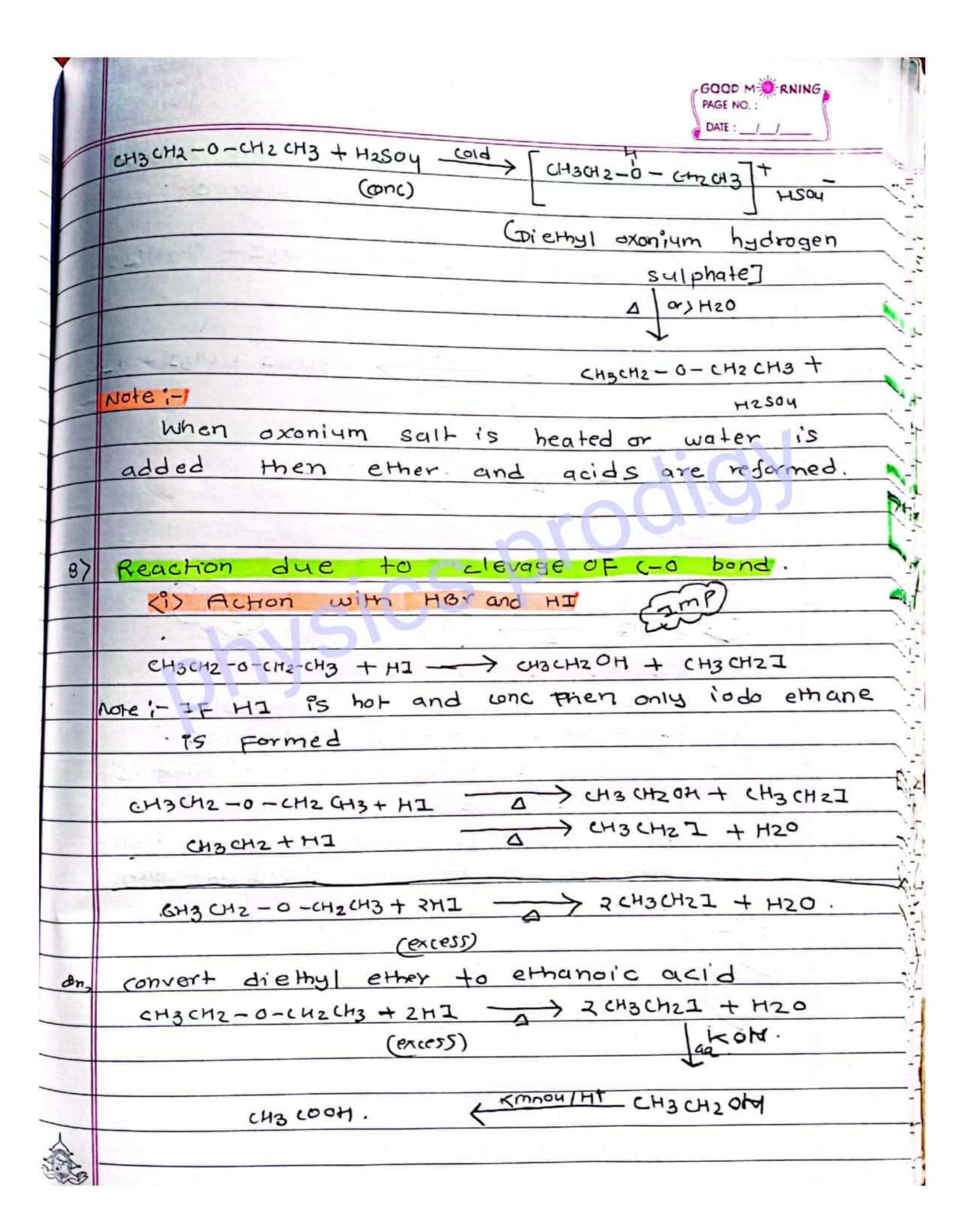


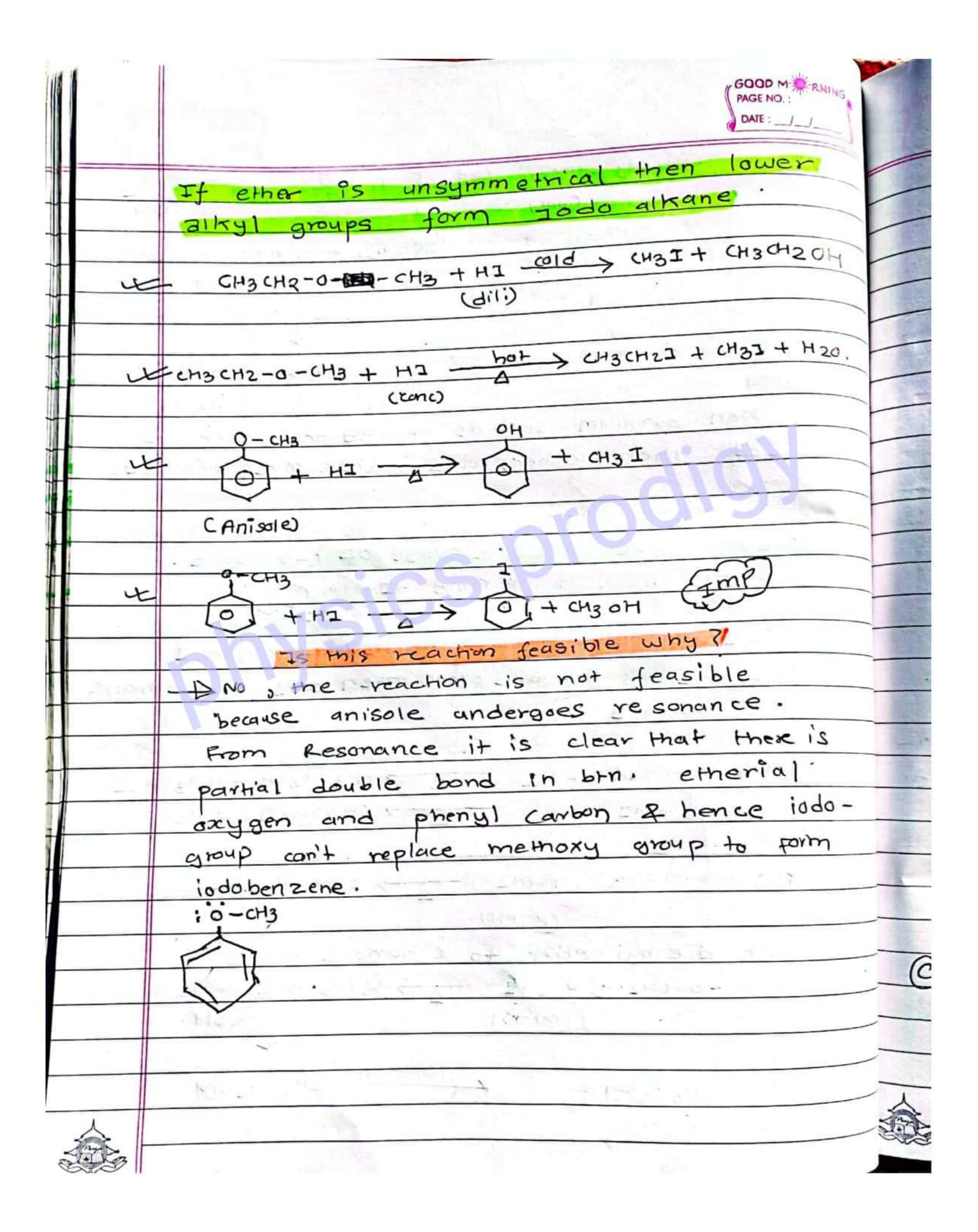
#	Structure of Ether
1	H - Q
	R-10: bond & 104.5
	greater than CUSEPR H
	R 100.0° Theory)
	(L.P-L.D T. D-B.D > B.D-Bb)
\Rightarrow	Due to two bulky Alkyl or Aryl group on either
	sides of etherial oxygen bond angle increases from
1 82	109.5° against USEPR Theory due to steric effect.
	TOWNS IN THE THE THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE PART
#	General methods of prepriof Ethers
11	ofeneral menos
1/-	Williamson's Ether synthesis Uni
W	When haloalkane is treated wi
530	sodium alkoxide cr-onas then necleophilic substit
Term	tion takes place and ether is formed.
J. 194 195	A = A - R + NAX
20.0	R-x + Na-or -> R-o-R + Na X
J. 1	the Harrison of the Control of the C
	CH3 CH2 - C1 + NQ-0-CH2 CH3 - CH3-CH2 CH2-CH3 + NOC 1
	This method is also used in preprior unsymme
	trical ether.
	CH3CH2-Br+N9-0-CH3 -> CH3-CH2-0-CH3
	. + NaBr.

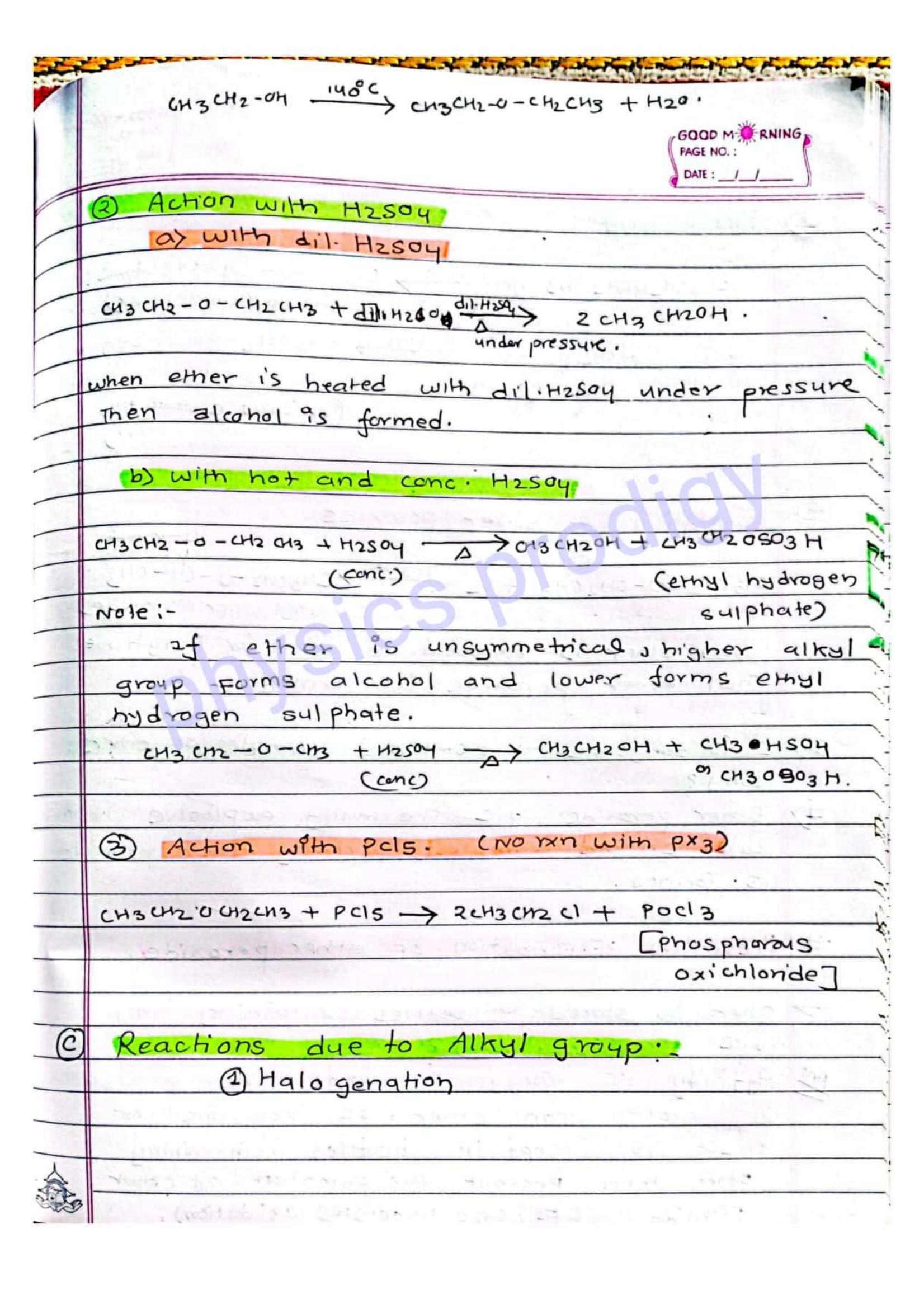




	DAIE:
(3)	Boiling pointing BP OF ether is lower than isomeric Intermo
	alcohol because Alcohol under goes intermo-
	alcohol because valcono. lecular H-bonding but ether does not.
	lecular H-bonding bus
	R-0
	R-0 $R-0$ $R-0$
· 11 -4 4	A Intermolecular H- bonding
	No H-bonding in alcohol.
	in ether
#	Chemical properties!
	COCTADIC
On	Ethers are relatively Inert (less reactive) organic
	compounds though they cointains c-0 polar
	band. why?
	Due to steric effect.
1	$\left(R - 0 - R\right)$
2	The second states of the secon
	due to Bulky alkyl or Anyl group
	The transfer of the season of
<f1></f1>	Reaction due to etherial oxygen
	4) For mation of oxonium salts!
	[Action with cold and conc. H2SO4 & HCI]
	CH3CH2-0-CH2CH3+HCI COD> CH3CH2-8-(H2CH3)+
	CH3CHQ-0-CH2CH3+HCI CONO CH3CH2-0-CH2CH3
. 1	(Diethyl oxonium chloride)
3	

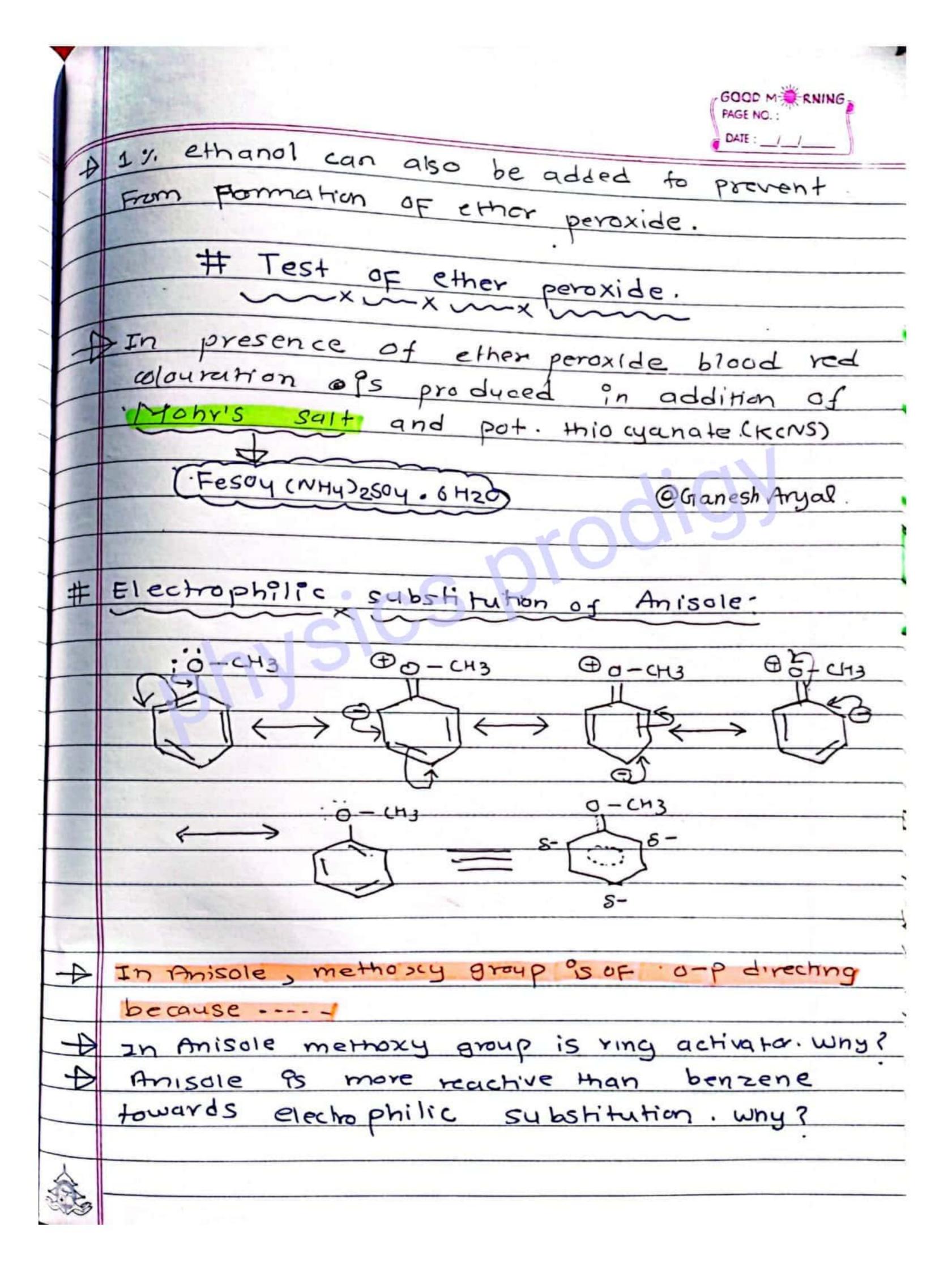




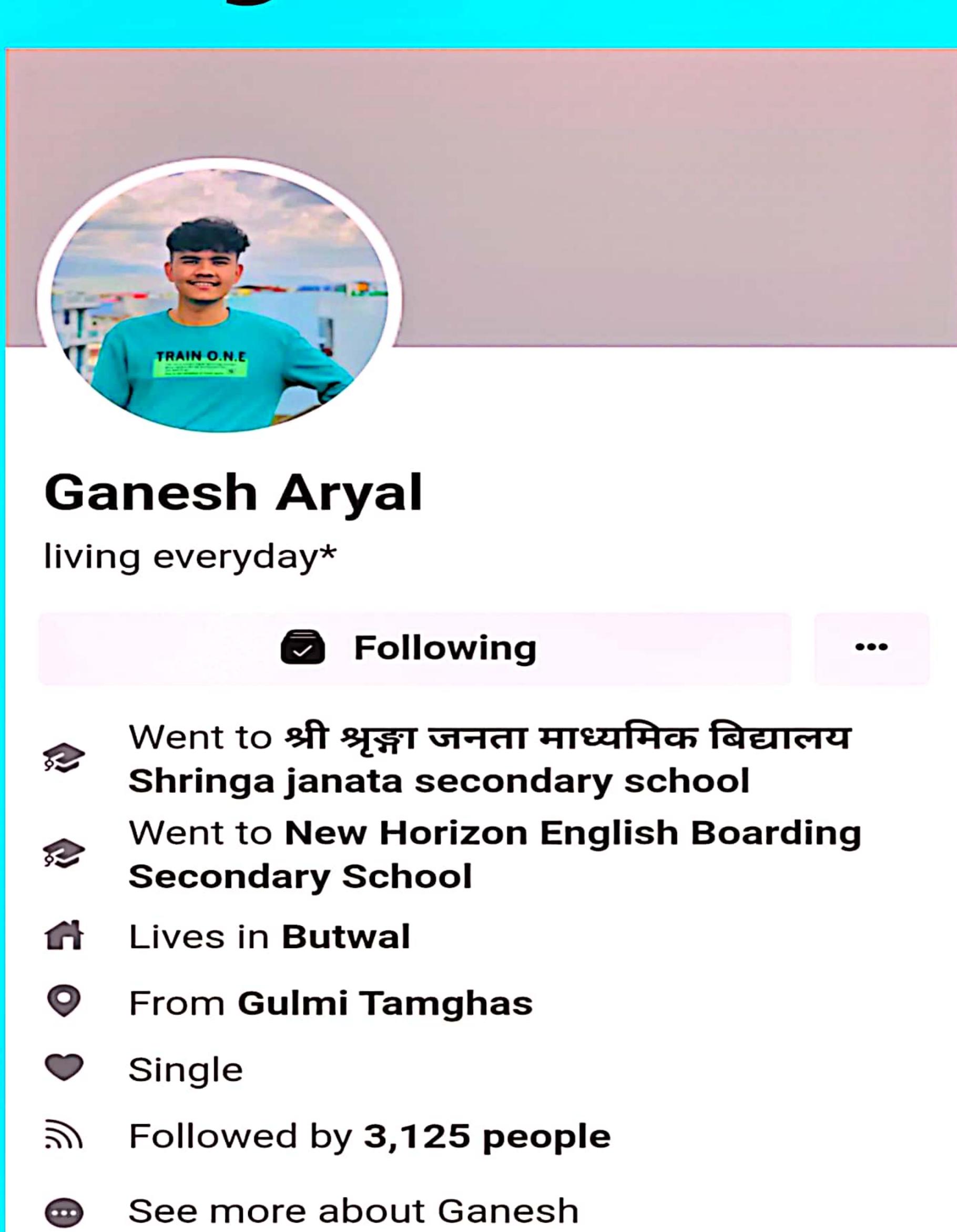


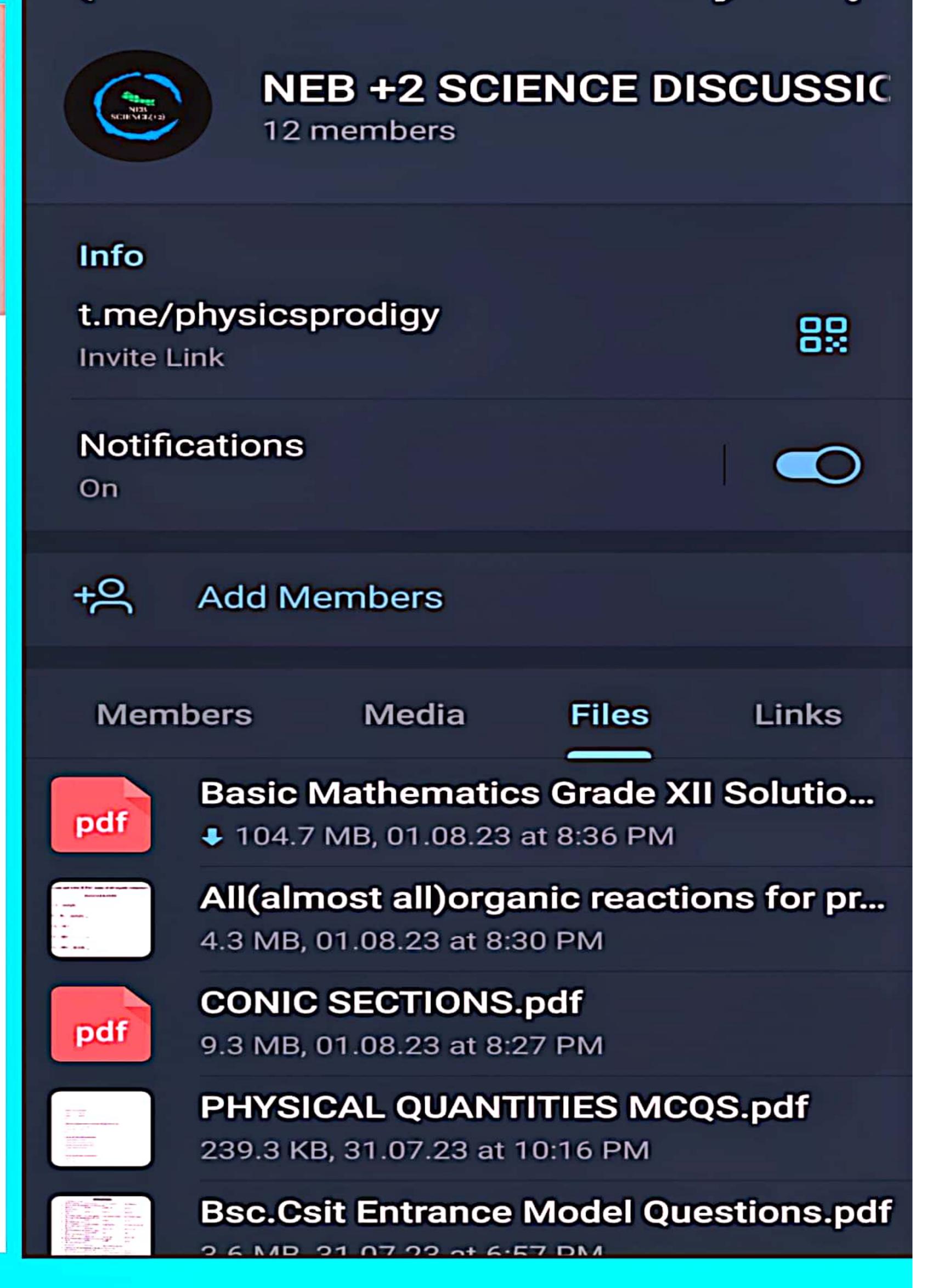
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DATE ://	

	ATE:
(1)	Halogenation
	110-110-110-110-110-110-110-110-110-110
	Chachzocha cha fella (and dienlow diethy) entry.
	1- ccl2-ccl2-ccl3+
	CHACHI-O-CHIZCHS + CIZ
	(excess) (per chloro. diethtero ethy)
	(Ther)
(2)	Formation of ether peroxide.
	CH3CH2-0-CH2CH3 +02 Tight > CH3CH2-0-CH-CH3.
	When ether is exposed to air for longtime.
	Then ether peroxide is Fermed.
On>	It is dangerous to distil old samples of ethers,
1.2-5	
1	Ether peroxide are thermally explosive chemi-
	cals. In ord samples, partially ether peroxide
	is formed.
	Prevention of Formation of ether peroxide.
#	Trevention of formation
	Ether is stored in bottles containing iron
	wire or cuzo, why?
Ans	Affinity of Oscygen towards iron or 6420
	is greter than ether. IF iron wire or
	cu20 is kept in bottles cointaining
人	ether then prevent the formation of ether
	peroxide e Fe 1 c420 un dergoes uxidation).



We would like to thank Mr.Ganesh Aryal for the notes





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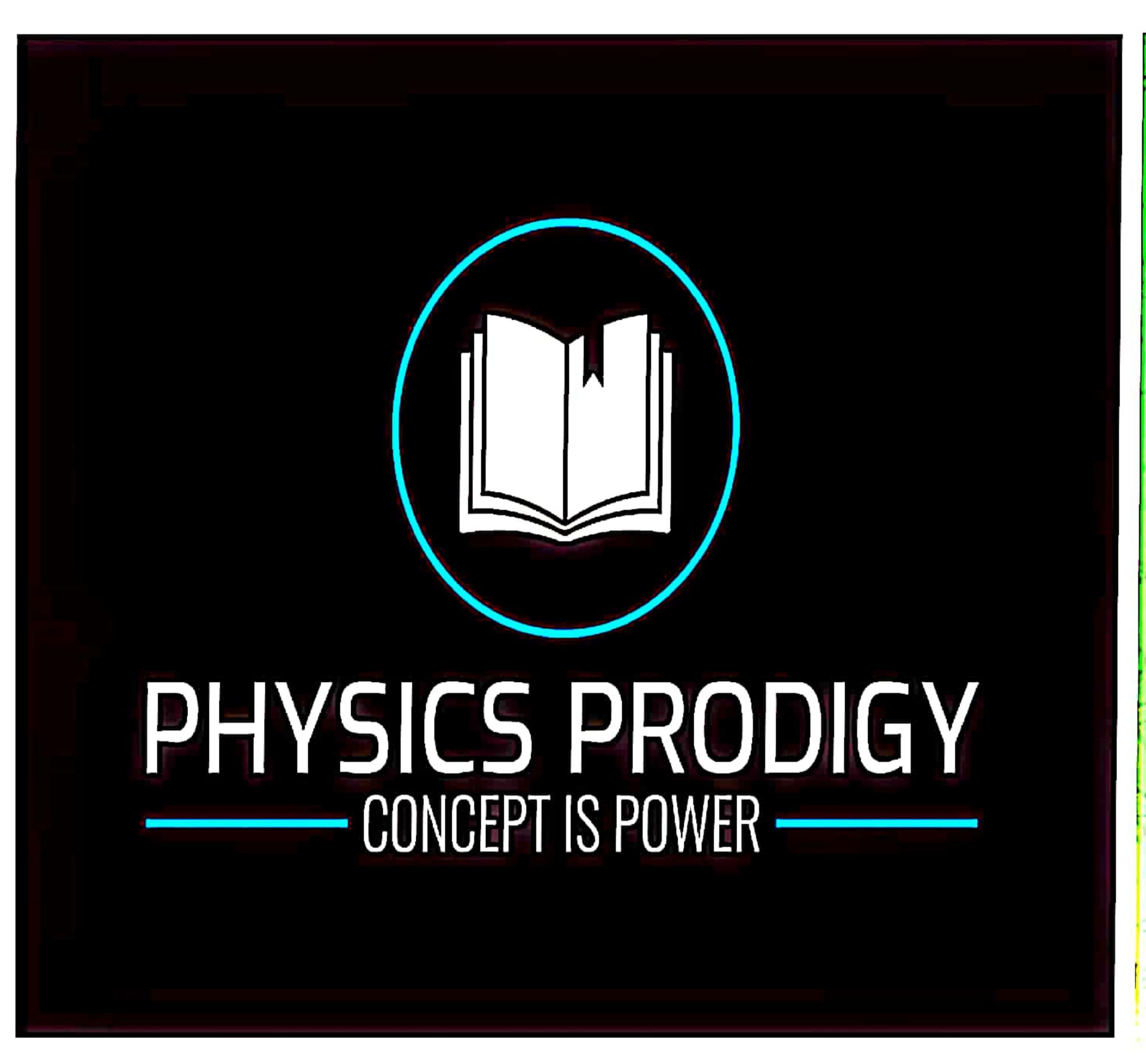
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