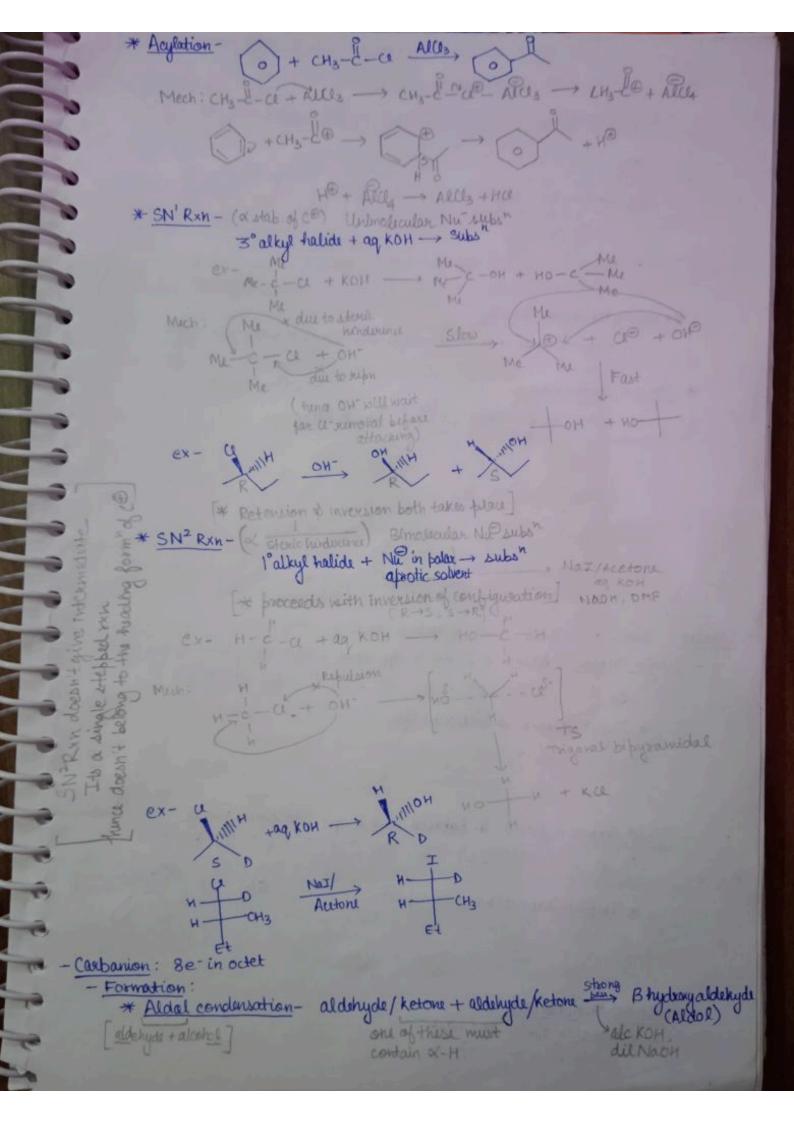
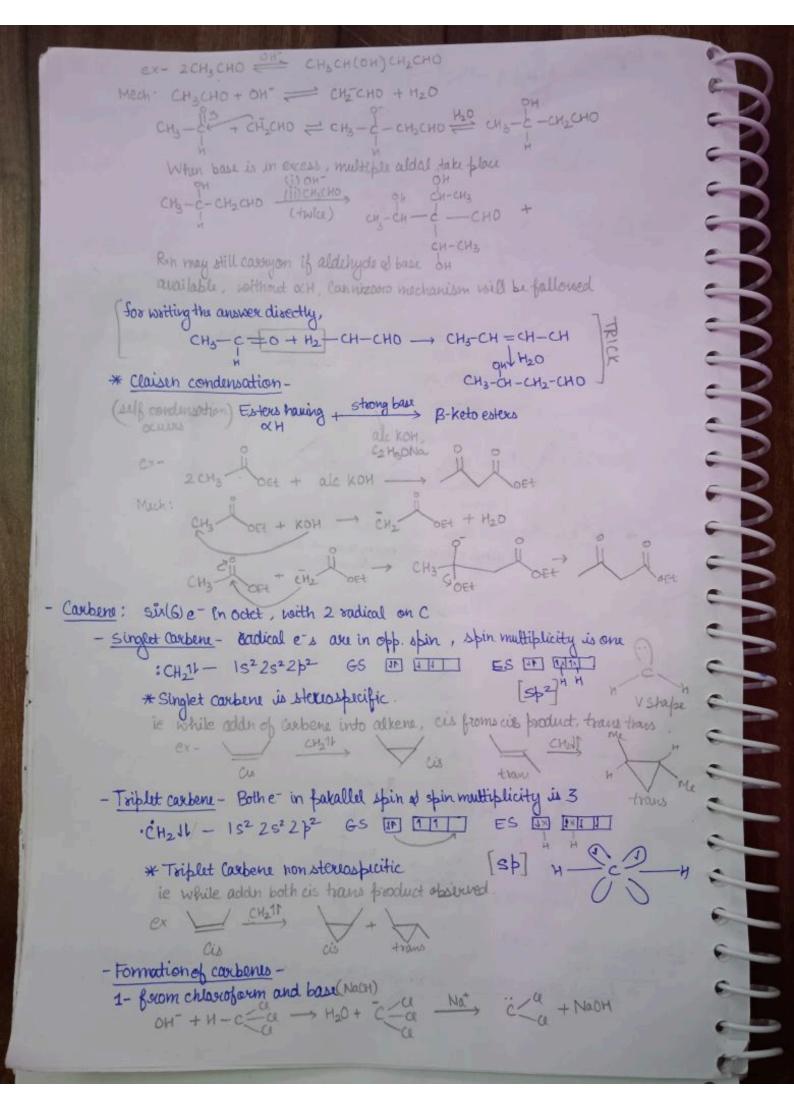
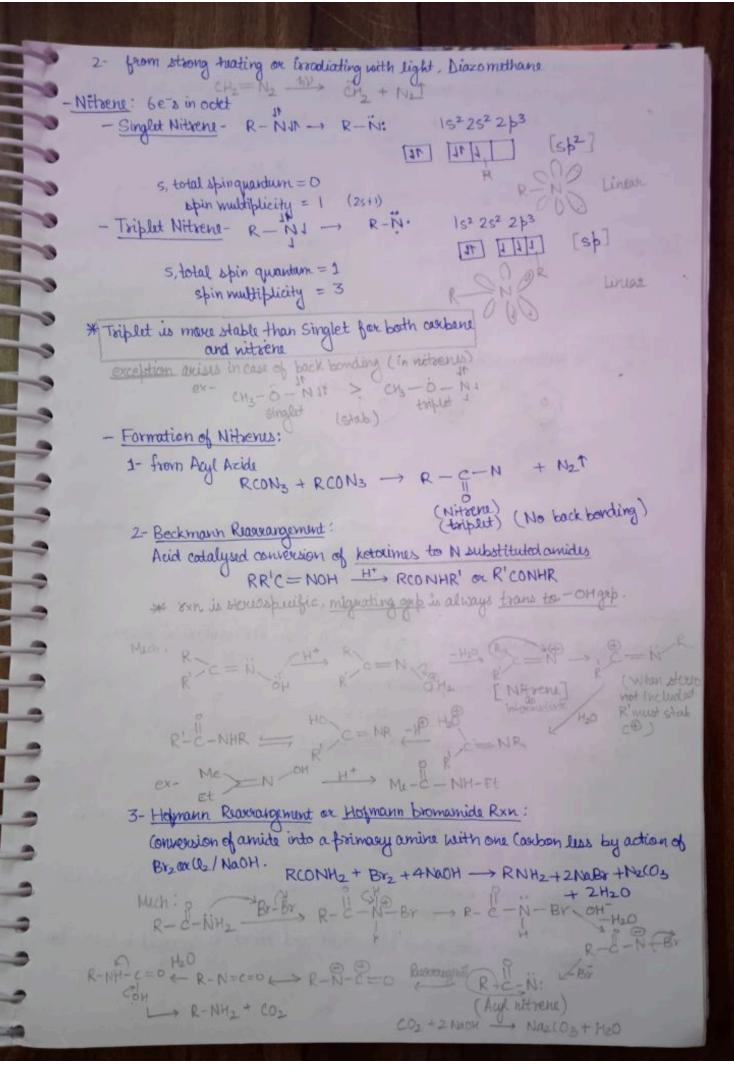
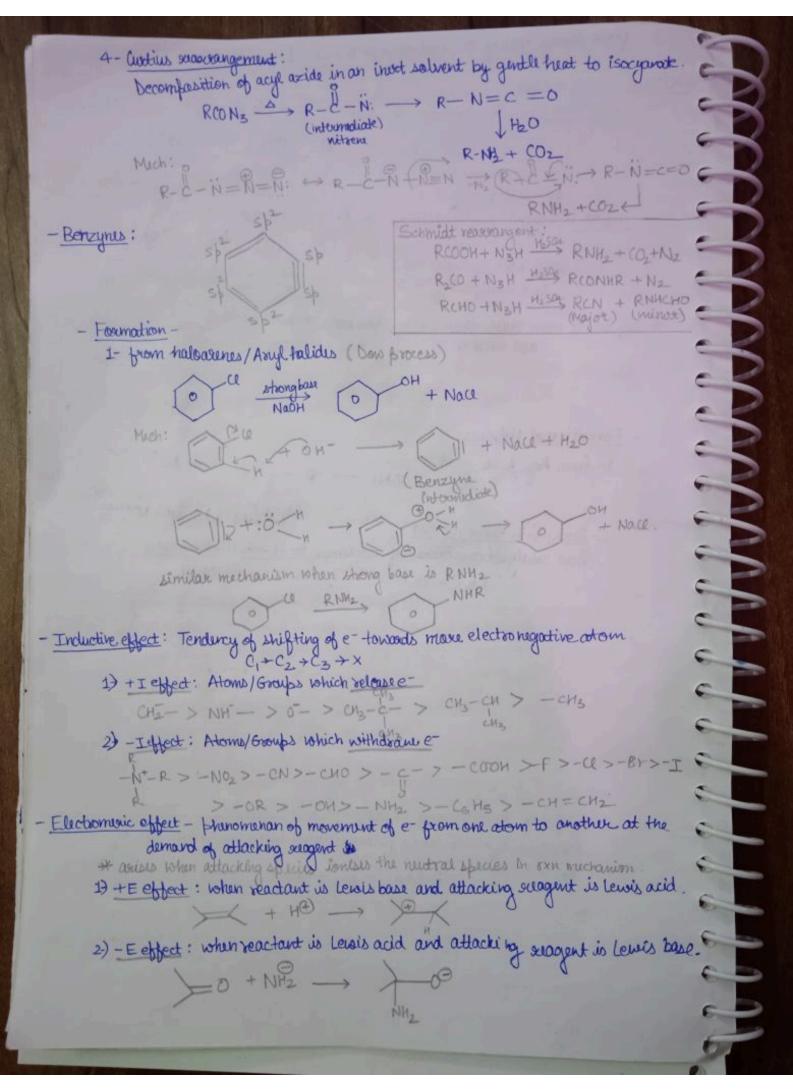
MODULE 4: ORGANIC	
- Official isomers: compound that rotates ple	×
- Criteria fox offical activity - 1) at least one chiral center	2
2) Non superimposable mirror image	0
3) No POS, COS)
- Enantioners - Chiral molecules that are mirror image of each other but non superimb	<
- Diasterromers- Non superimparable (differ in spatial arrangement), not mirror images	4
- Bricerity sulls - Directly attached to chiral center → Atomic no. 1 Privarity 1	2
If some, more to next, Double bord $c=c$ implies $c=1$	>
- R-S Nomenclature - get lowest poissuity on harizontal line through even cexchanges	5
the observer observer = away from = towards the observer observer	
- E-Zonfiguration - highest priority group -> same side → Z (zussamann)	
opp side → E (Entgyin)	
- Atropisomerism - Isolable otereaisoners, arise from hindered notation about single bond	
ex- (1) Biphanyls (with bulky grops on artho)	2
(ii) Bridged bibhanyl of for n=2 (sytho substreq)	3
(ii) Binapthols.	
- Offical isomerism in Allines - Non superimposable mirror image	?
optically active when a * b & c * d	
- Optical isomerism in Spiranus - 2 rings fused with 1 Catom	
active when a + b and c + d	
a XXX C	
- Ofstical isomerim in bipherils - asies due to restricted rotation of physics due to	-
P free intotion of Lou NO2 friendthence	
phungh allowed No free golds.	
HO COX HOLD DANG OF COOM SI - NOT NOW NOT being long in builty	
INACTIVE ACTIVE	-
- Corbocation: Intermediate, 6 e in octet	
hybridization, $H = \frac{1}{2} [V + M - C + A]$	
- Formation: Valuna e Monovalunt in central atom atom	
# Alkulation - 10 + CH3-CE Alles To	
Much: CH-14 + ALUS -> CH3-12-ALUS	
CH3 CH3 CH3 ALCG+H+ ALCG+HC	
SID TO TO CHS	

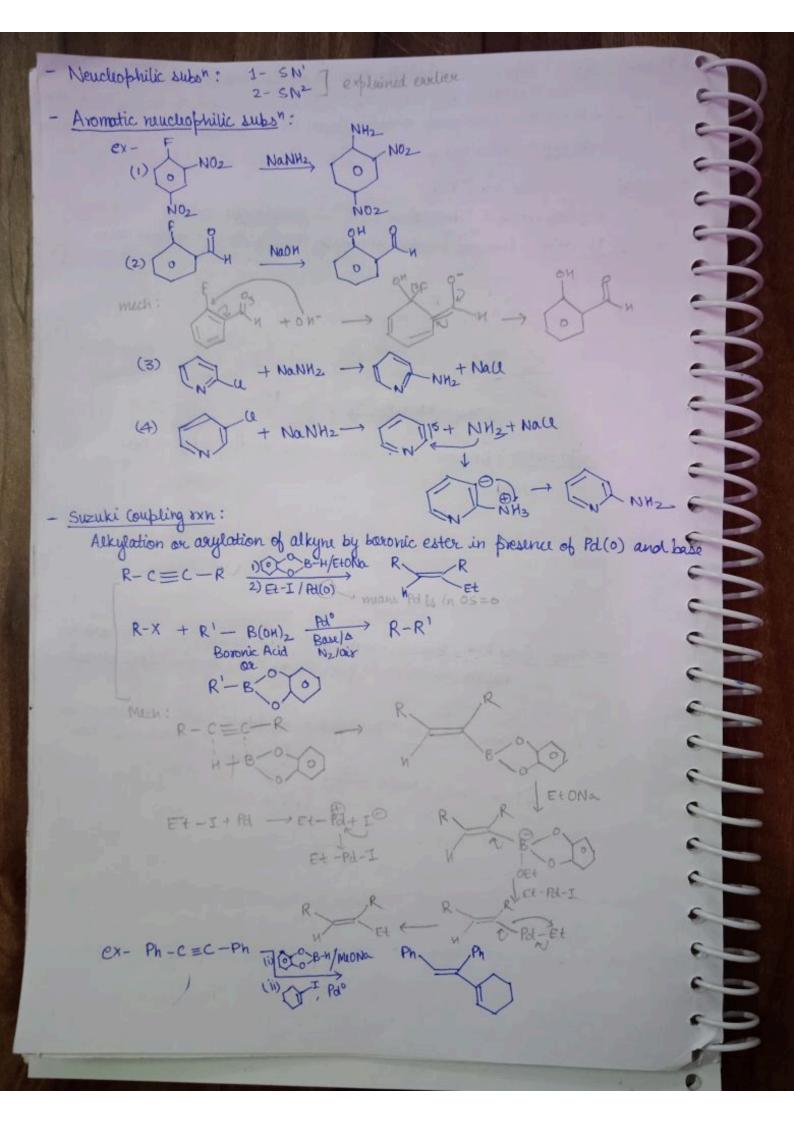


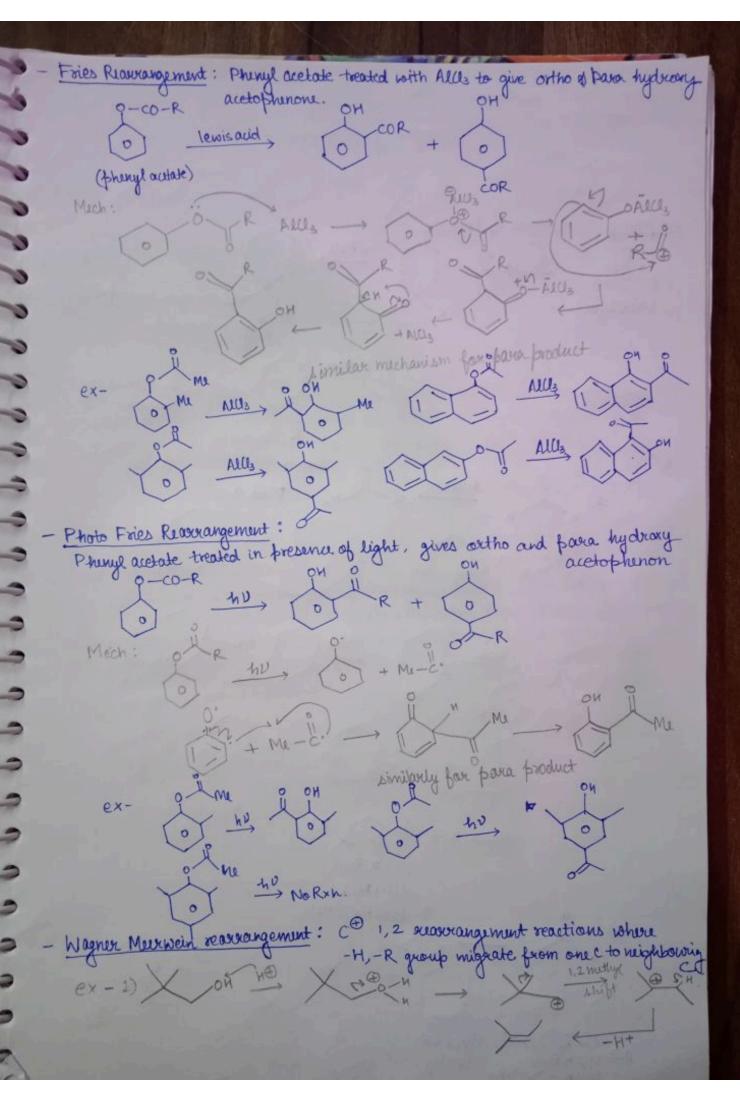


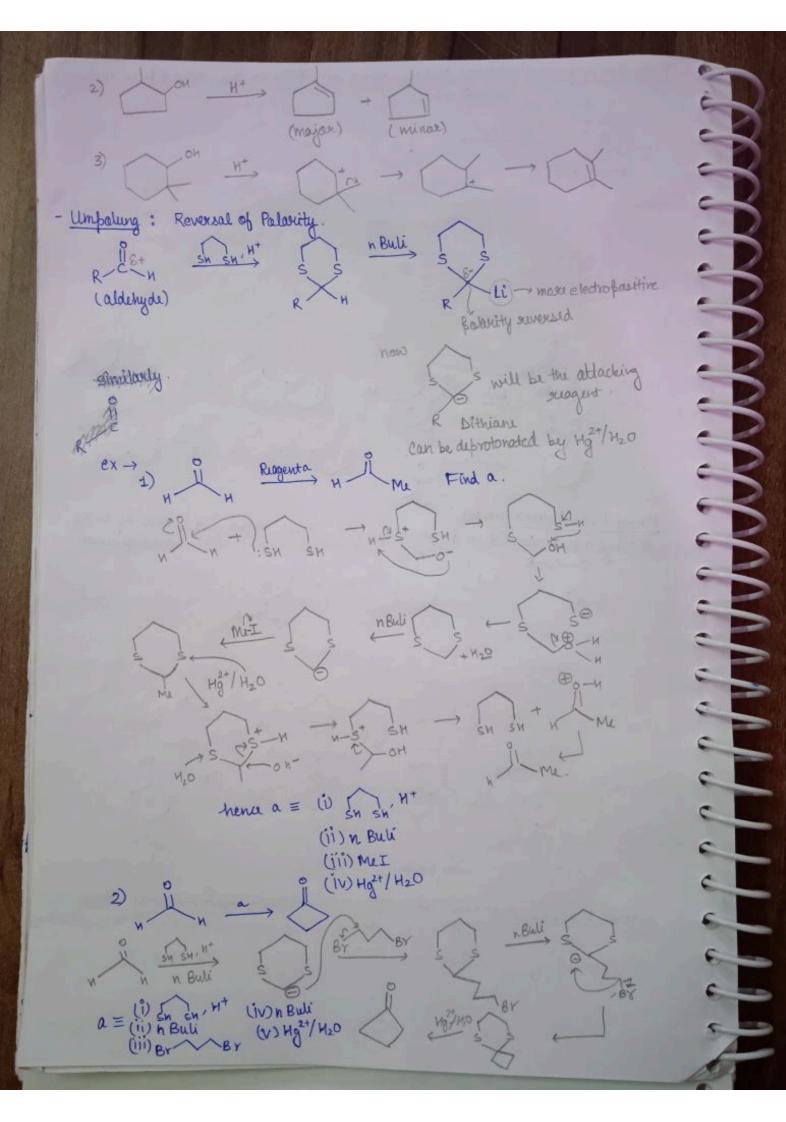


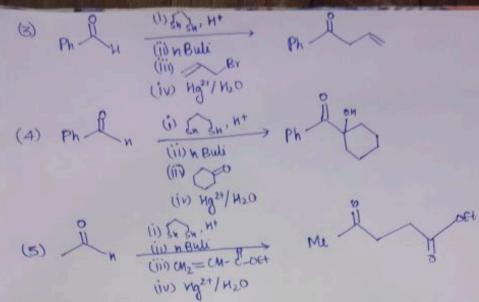


Mesomosic effect: defined as the belovity produced in the malecule by interaction of two TT bonds are b/w TT bond and lone fair of e- present on an adjacent dom 1) + M effect - When group or atom donate the e- pair to the conjugate of system 2-)-Meffect-When group or atom attracts the lone pair of e-from system Aromatic electrophile subs" Rxn: Replacement of hydrogen atom by E+ is electrophibic subs": 1- Nitration: Benzene treated with HNO3/H2SO4 to give nitrobenzene. HO-8-04 + HO-NZ -- HO-8-0- + NZ hunce NO. 10 attacks benzene sting 2-Sulphoration: Benzene treated with H2504 to give Sulpanic acid 5-04 + HO-5-04 -> HO-5-0 + 3- Friedel Graft Rxn: Benzene-treated with alkyl halide was on only halide in presence of Alls to give alkyl benzene No ren Phanol Red Norm [resurengement 4- Reiner-Tiemann reaction: Foornylation of phenals with chloroforum in alkaline solution + CHUZ + NOON - 60°C > (Majose) Co fast +20 +: 8 Cd slow :: Cd2 + Ce CR 2NAOU









Chemistry of Vision:

As light strikes the eye, brain recieves a signal that something is there. The vision is possible because brain carries out direct and uncomplicated, purely chemical sun transformation. Two, is Retinal is converted to trans retinal

Circular Dichardism: [stouochemistry is topic hai]

Circular dichocoism is an adsorption spectroscopy, that uses circularly palarised light to investigate structural aspects of optically active chiral media. It is mestly used to study biological malicules, their structure and interactions with metals and other molecules.