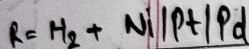
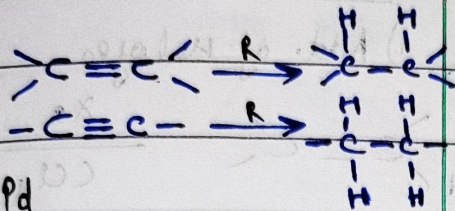


Organic

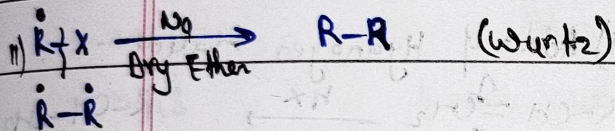
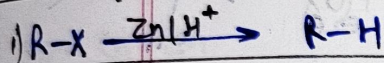
Alkanes

1. Mol

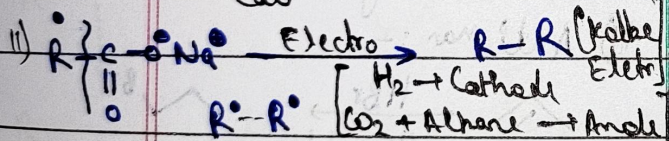
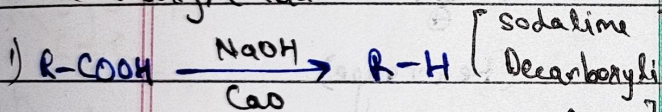
From Unsaturated Comp



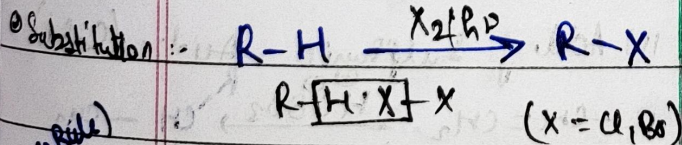
From Alkyl Halide:-



From Carboxylic Acid:-



2. Properties:-

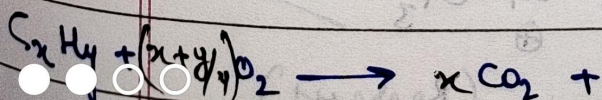


(Markovnikov's Rule)
Cl₂

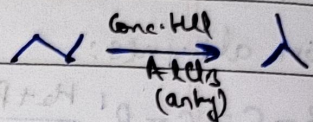
mp: γ₃: γ₇

[1:3:8:5]

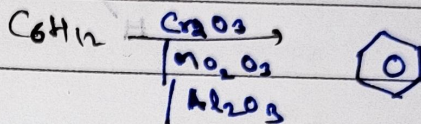
Combustion:-



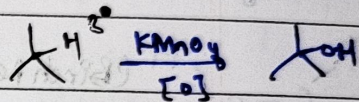
Isomerisation:-



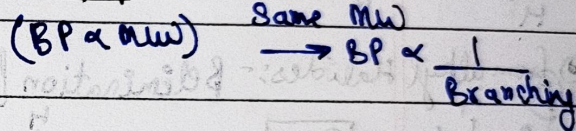
Aromatisation:-



Oxidation:-



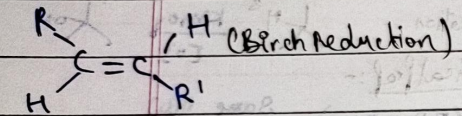
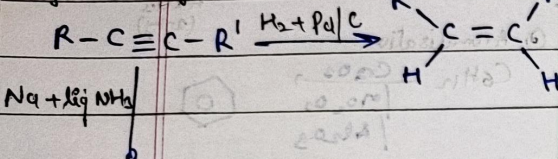
Physical Prop:-



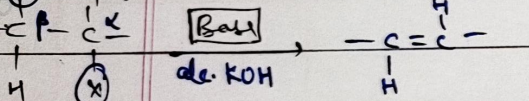
Alkenes

1 Map

from alkynes:-



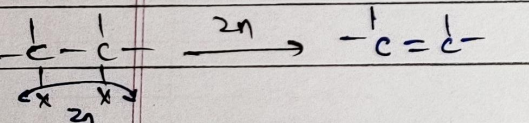
from alkyl Halides:- β -elimination / E2



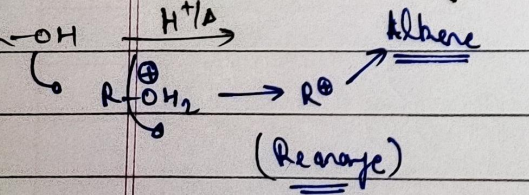
more stable Alkene is major product.

If $tBuOK$ is used; Less Hind. is major.

by vicinal dihalide:-

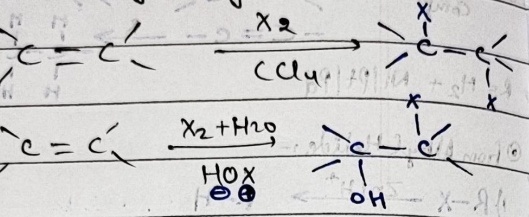


from Alcohols by Acidic Dery.:-

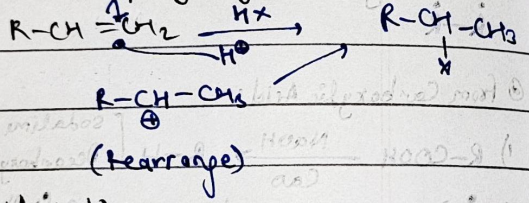


Properties:-

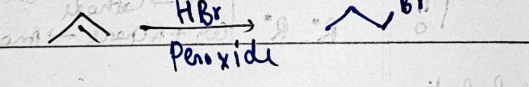
i) Add. of Halogen.



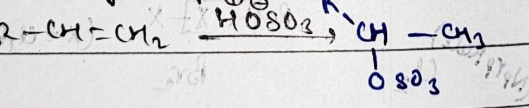
ii) Add. of Hydrogen Halide-



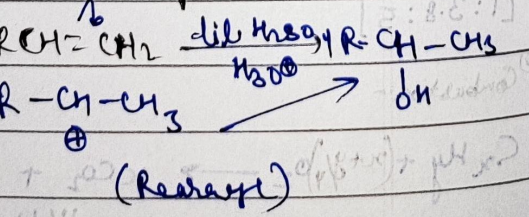
iii) Anti mar:-



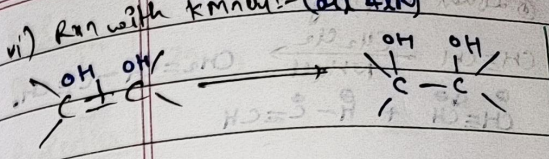
iv) Add. of Sulphonic Acid:- (Cold)



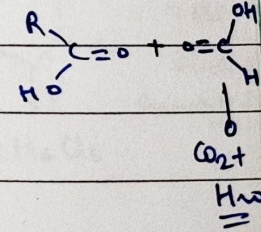
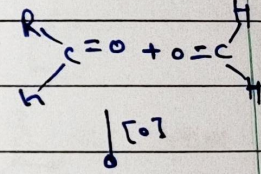
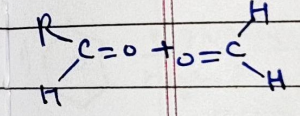
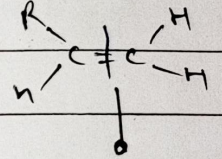
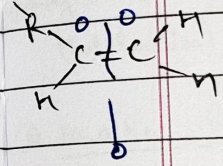
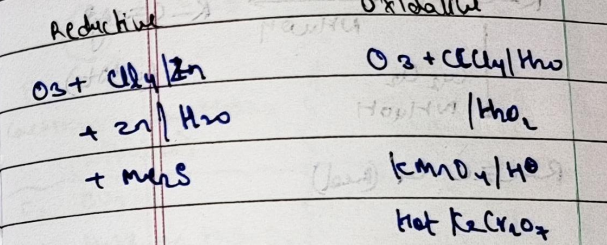
v) Addition of water:-



Bayen's Reagent



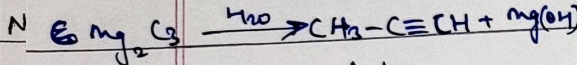
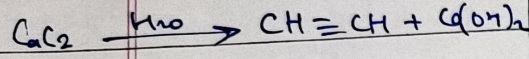
vii) Ozonolysis:-



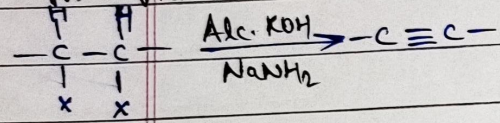
Alkynes:

1) mol :-

2) from CaC_2 and Mg_2C :-

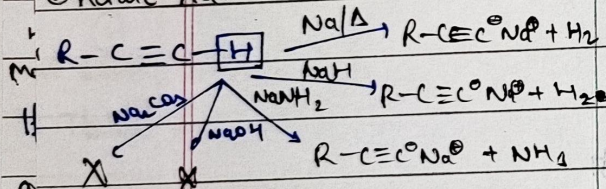


3) from vicinal dihalides :-

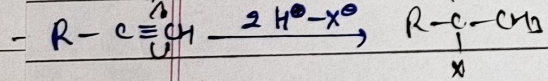


4) Properties :-

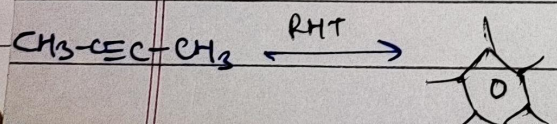
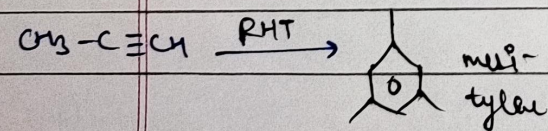
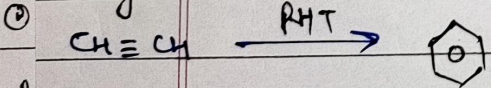
1) Acidic Nature :-



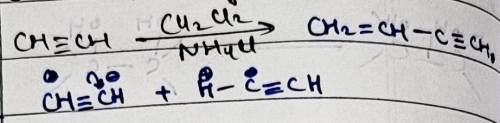
2) Addition Rxn :-



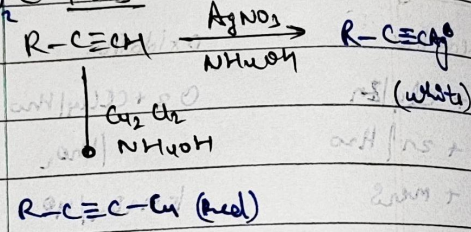
3) Polymerisation :-



4) Linear coupling :-

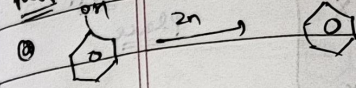


5) Tests :-



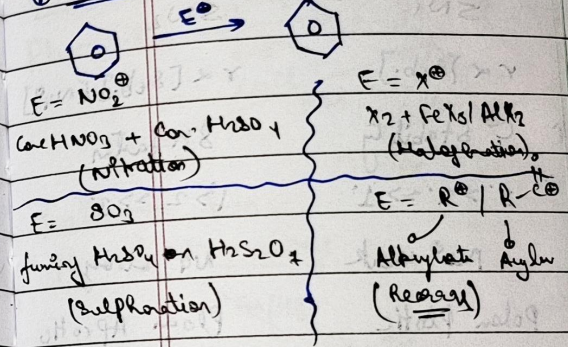
Benzene

mol

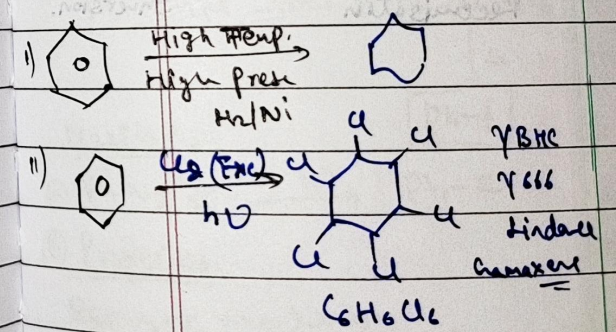


Properties :-

1) EPR :-



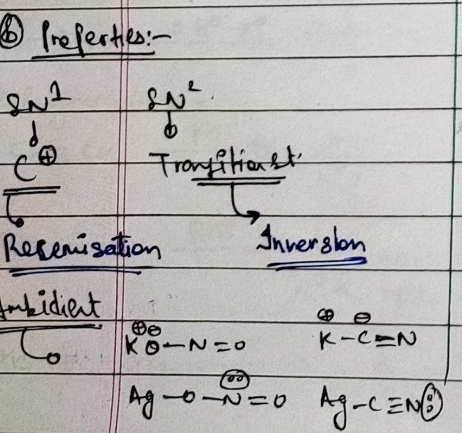
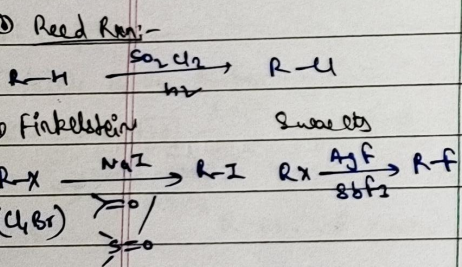
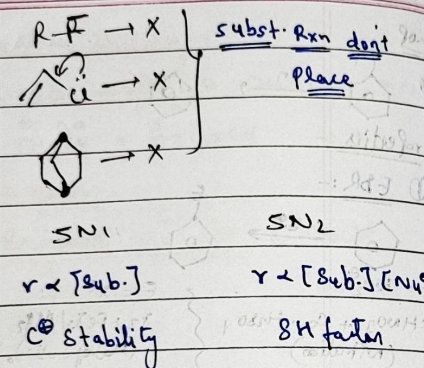
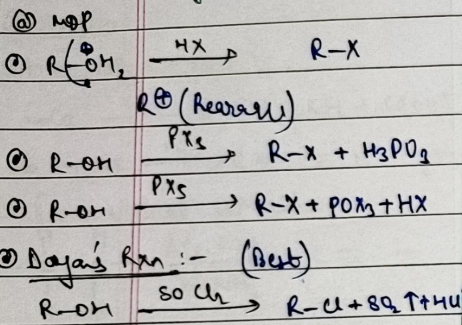
2) Addition Rxn



Halogen Contain Comp.

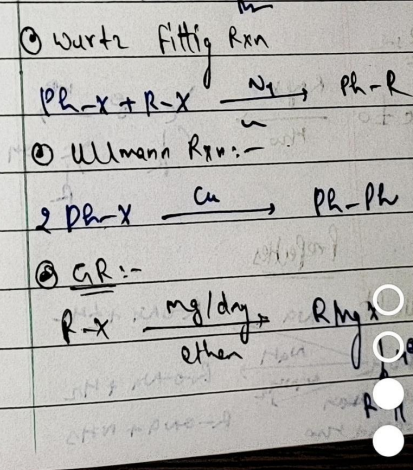
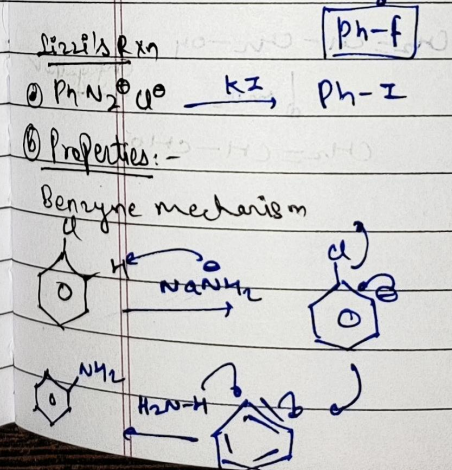
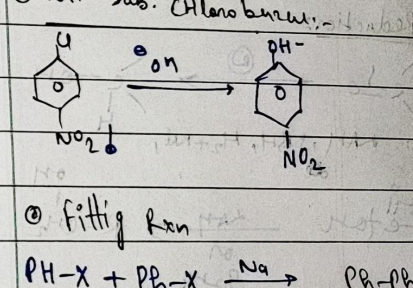
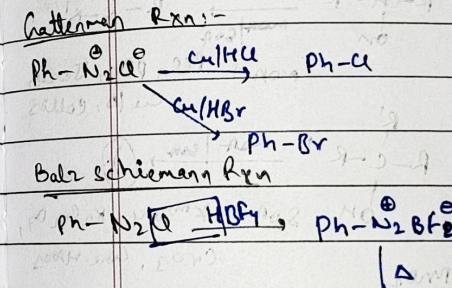
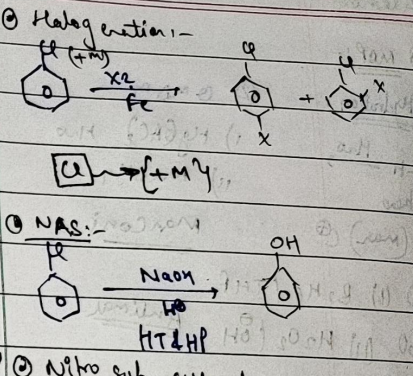
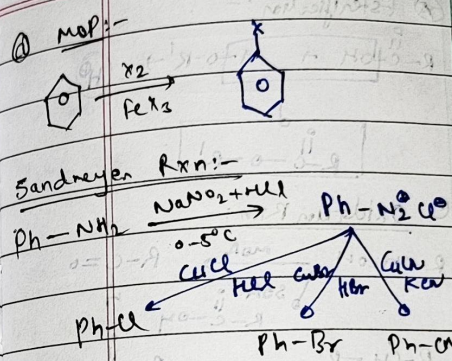
R-X

classmate
Date _____
Page _____



Ph-X

classmate
Date _____
Page _____



Alcohols

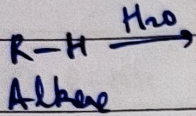
① map:-

① Hydration:-

① O.M.M

i) $Hg(OAc)_2$ H₂O

ii) $NaBH_4$



(mar) ②

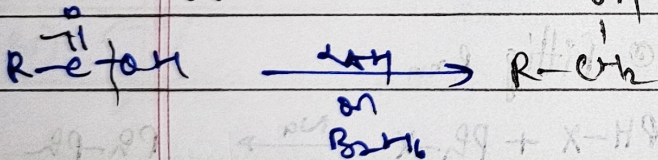
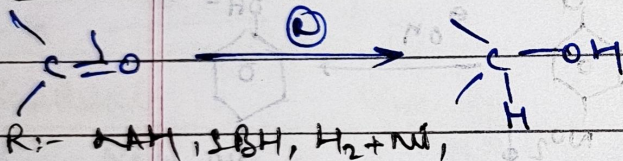
Marconi

② (i) B_2H_6 / THF

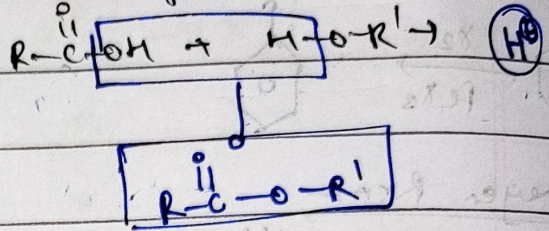
H₂O (ii) H_2O_2 / OH^-

Anti-Mark

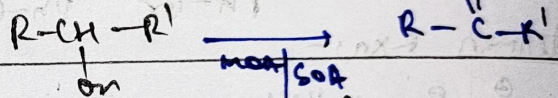
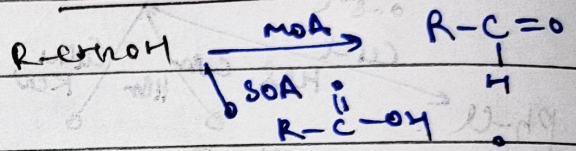
③ Reduction:-



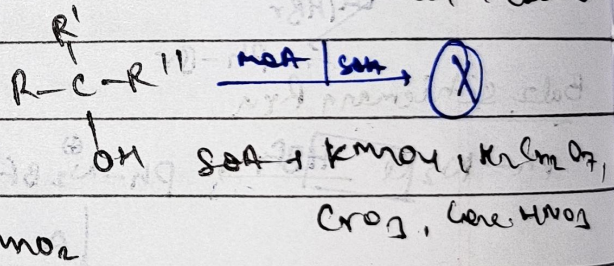
④ Esterification:-



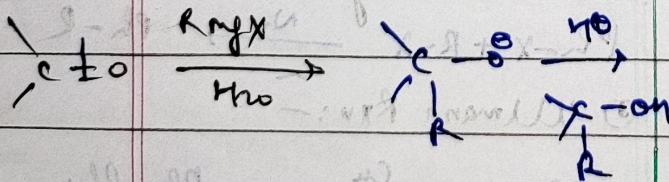
⑤ Oxidation Rxn:-



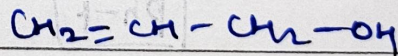
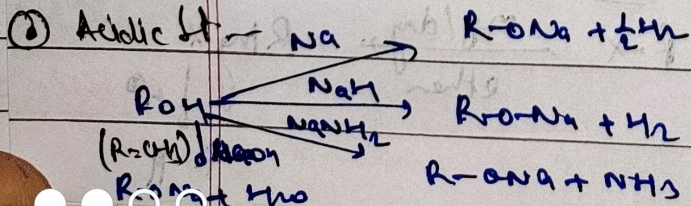
MOA + PCC, PDC, Jones, $Cu/A, CrO_3$



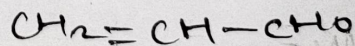
⑥ WR:-



Properties

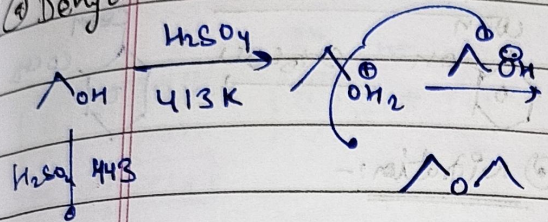


Conjugation

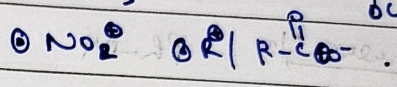
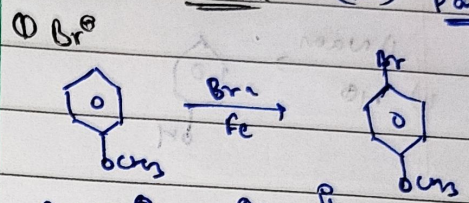


Ethers

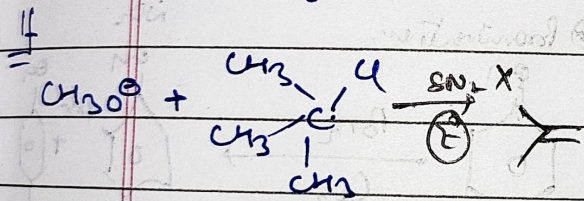
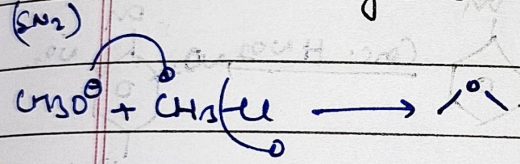
② Dehydration:



FAS Anisole (+m) para

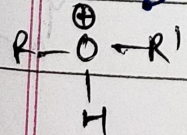
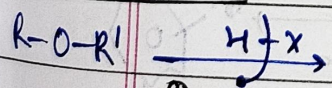


(ii) Williamson Ether synthesis:



Properties

① Rxn with HX:-



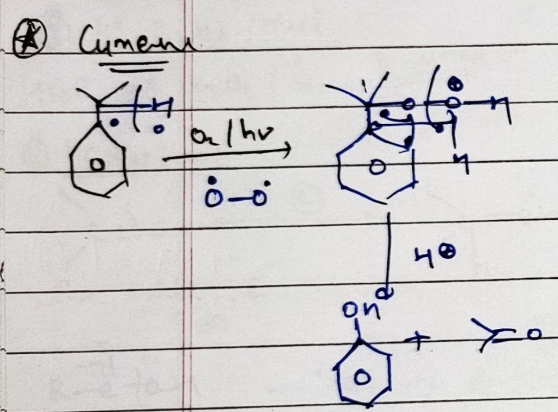
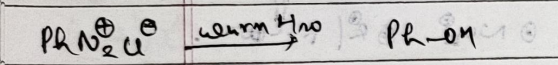
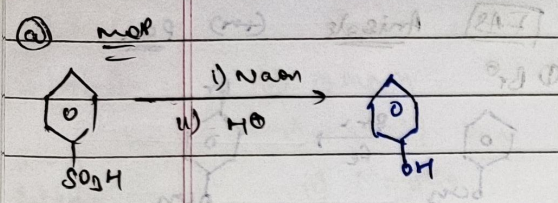
① 3° on R₂O

SN1

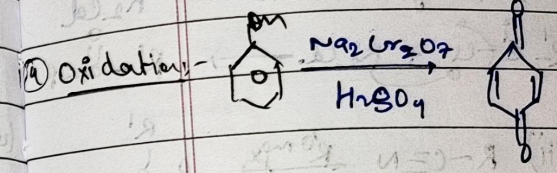
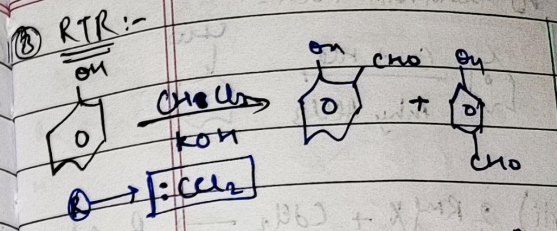
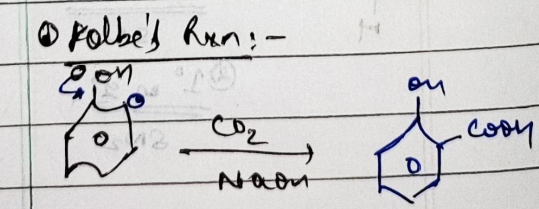
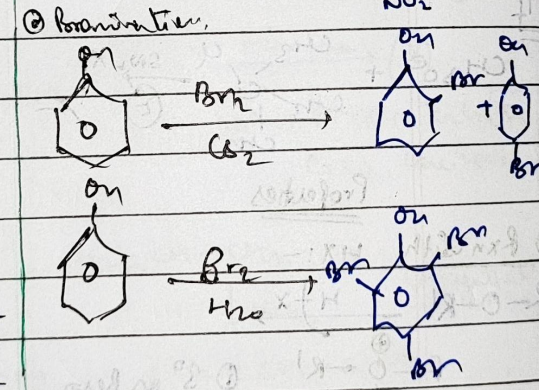
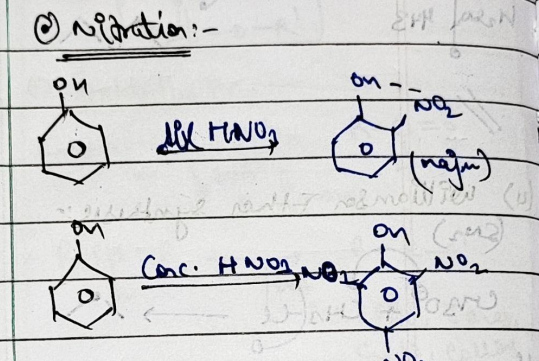
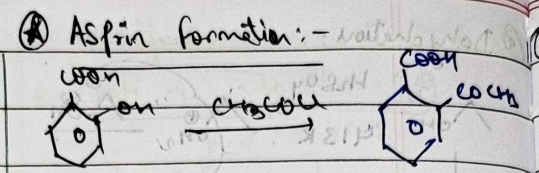
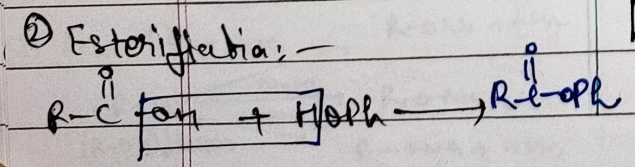
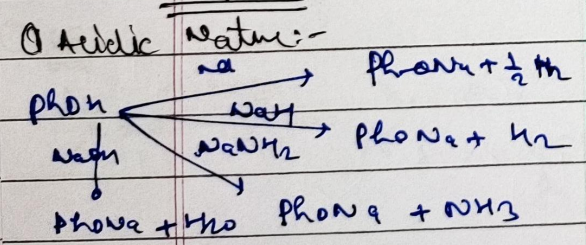
② 1° or 2°

SN2

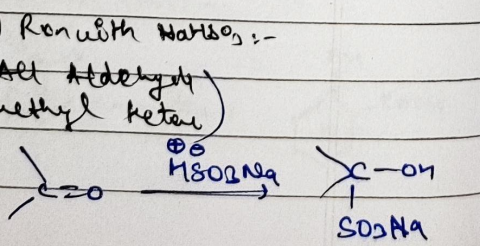
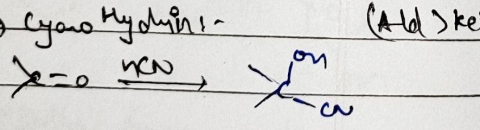
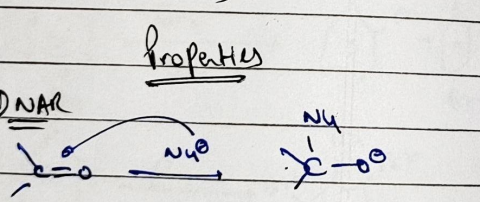
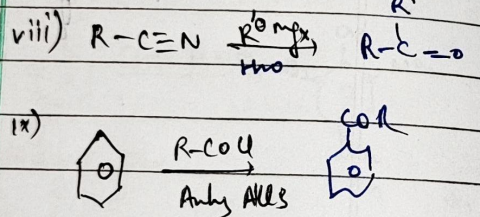
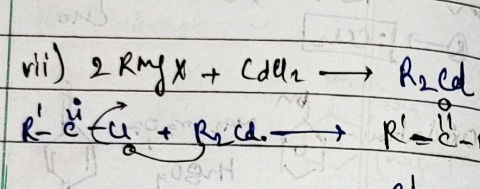
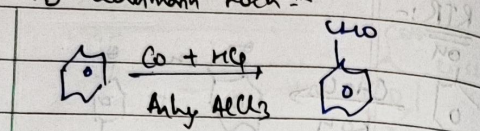
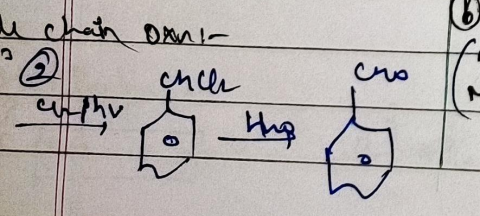
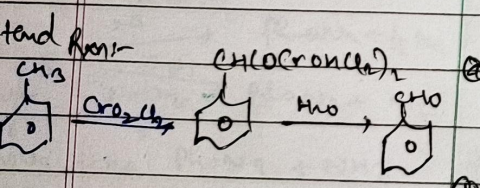
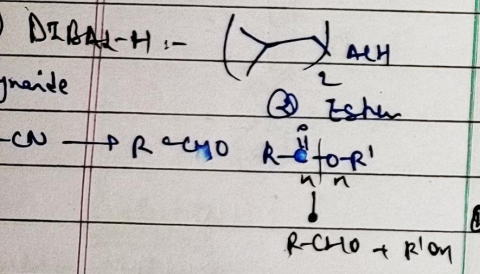
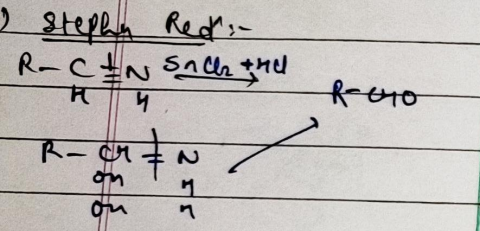
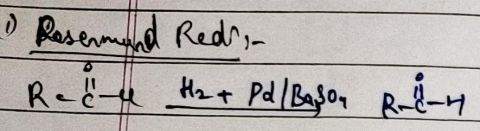
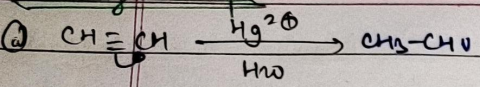
Phenols



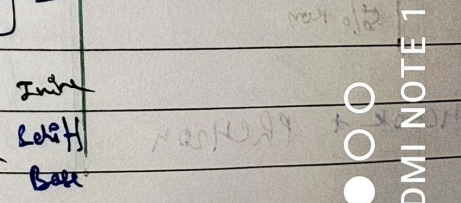
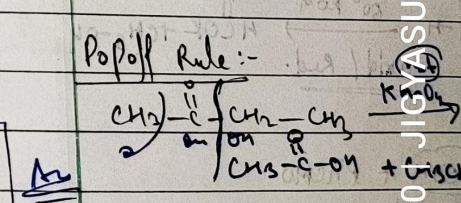
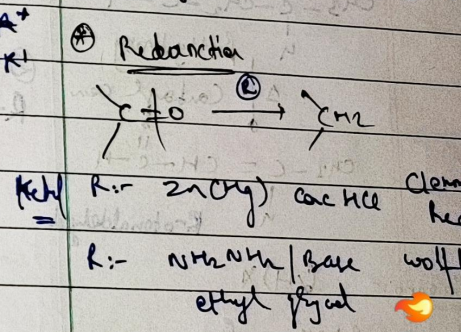
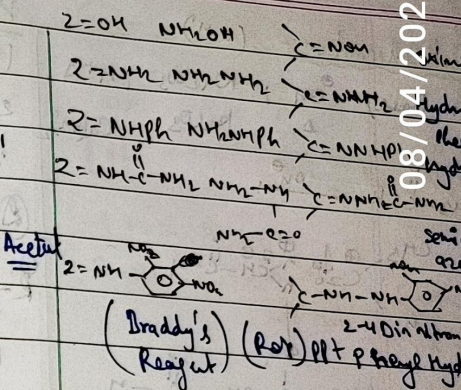
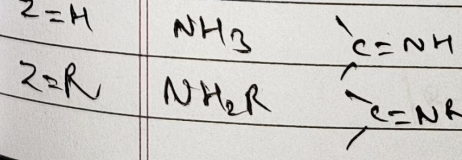
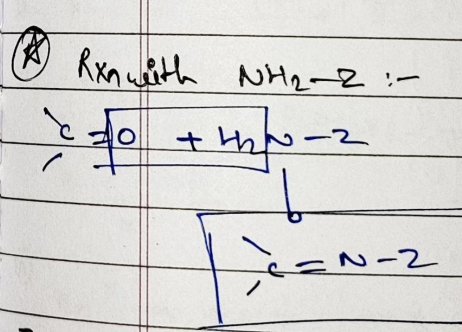
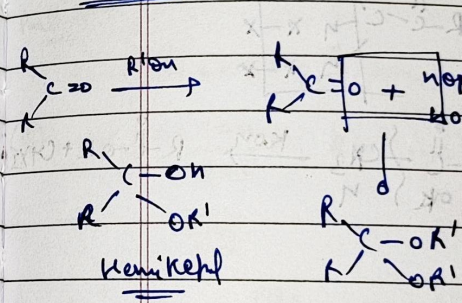
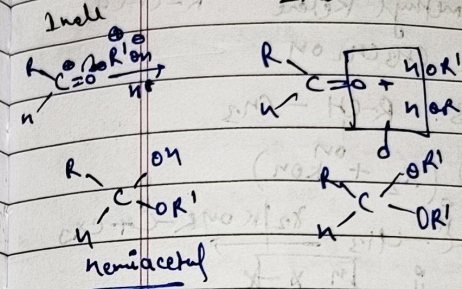
Properties



Carbonyl Comp:-

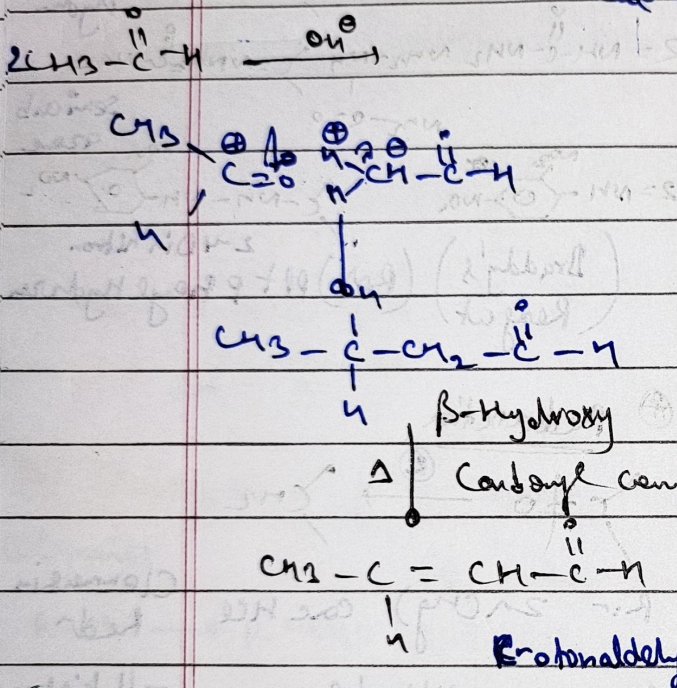


① Rxn with ROH:-



Aldol Condensation:- (2H)

① :- Base; OH^- ; Na_2CO_3 , H^+ Δ
 K_2CO_3 (Cat) Δ



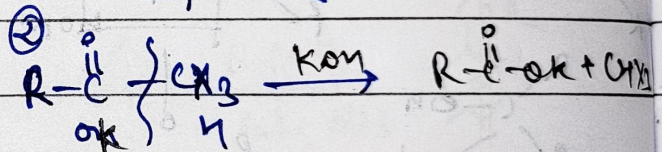
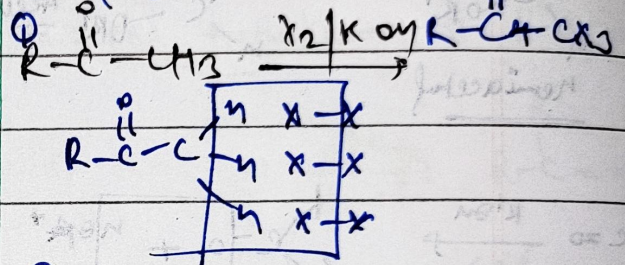
Halofom:-

1 methyl ketone $R-C(=O)-CH_3$

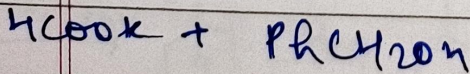
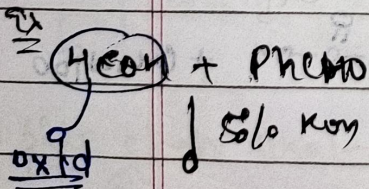
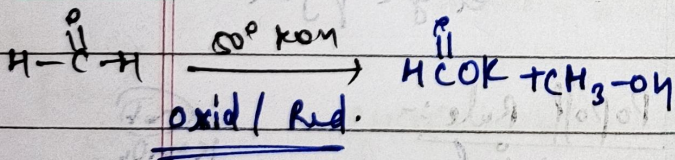
2 CH_3CH_2OH

3 $R-CH_2-CH_3$

① $(X_2 + KOH)$

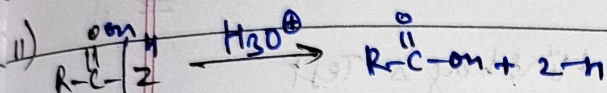
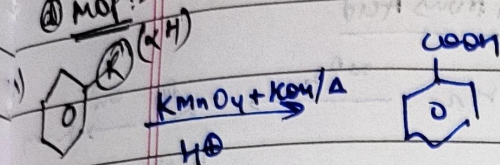


Cannizzaro:- (2H)

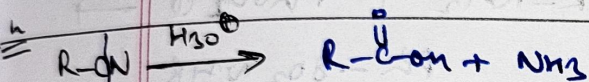
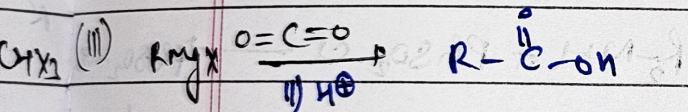
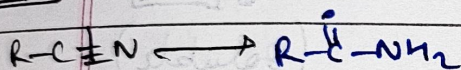
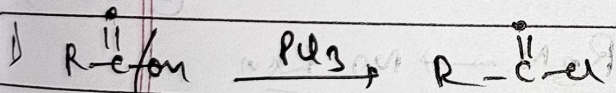


Carboxylic Acid :-

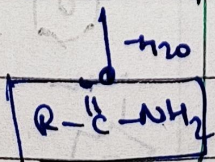
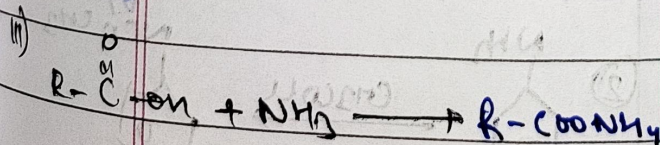
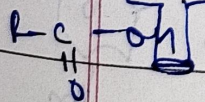
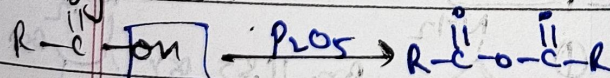
① MOP :-



Z = Cl, OCOR', OR', NR'_2

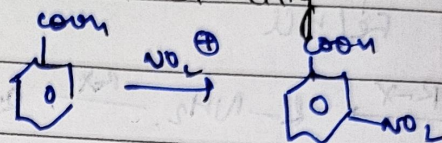
Partially Hy.Prod

ii) Dehydration.

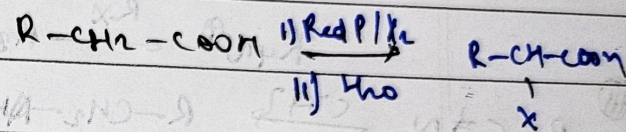


(ESR)

Metal Directing



(iv) HVZ Rxn :-

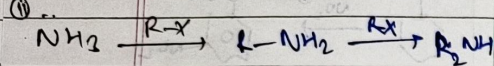
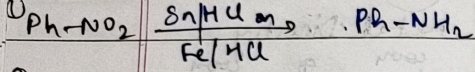


Amines

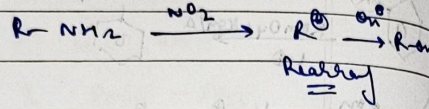
classmate

Date _____
Page _____

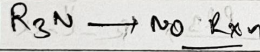
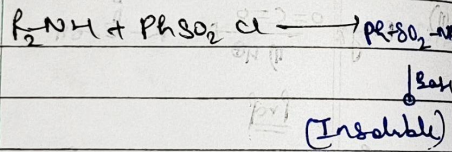
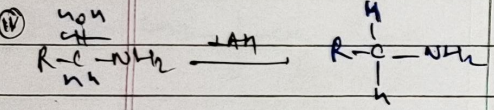
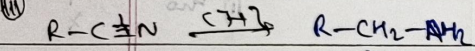
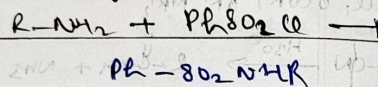
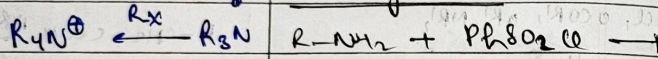
④ MOP:



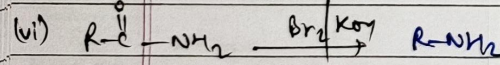
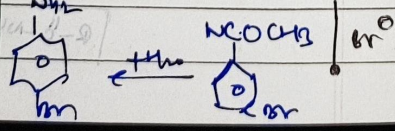
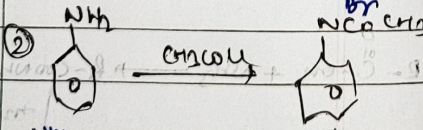
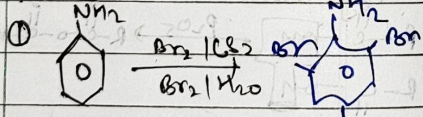
③ Nitrous Acid



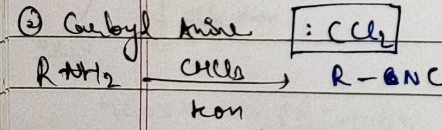
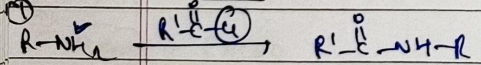
Hinsberg's Test



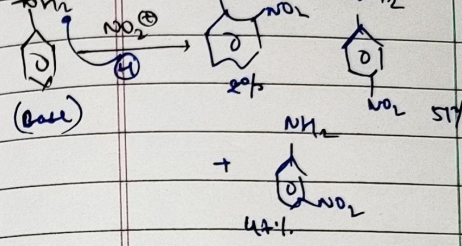
ISB



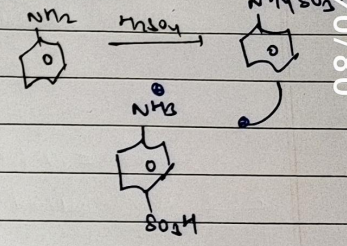
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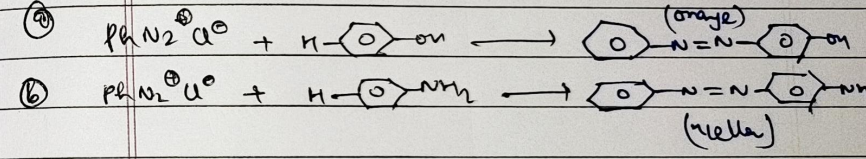
Nitration



Sulphonation



Diazotisation Coupling



08/04/2022 22:00

REDMI NOTE 10 | JIGYASU