

4) a) D and B

b) E and A

c) C

d) comp d A 3 methyl pentan-2-one

comp B pentan-2-one

comp C hexane

comp D Benzaldehyde

comp E Cyclohexanone

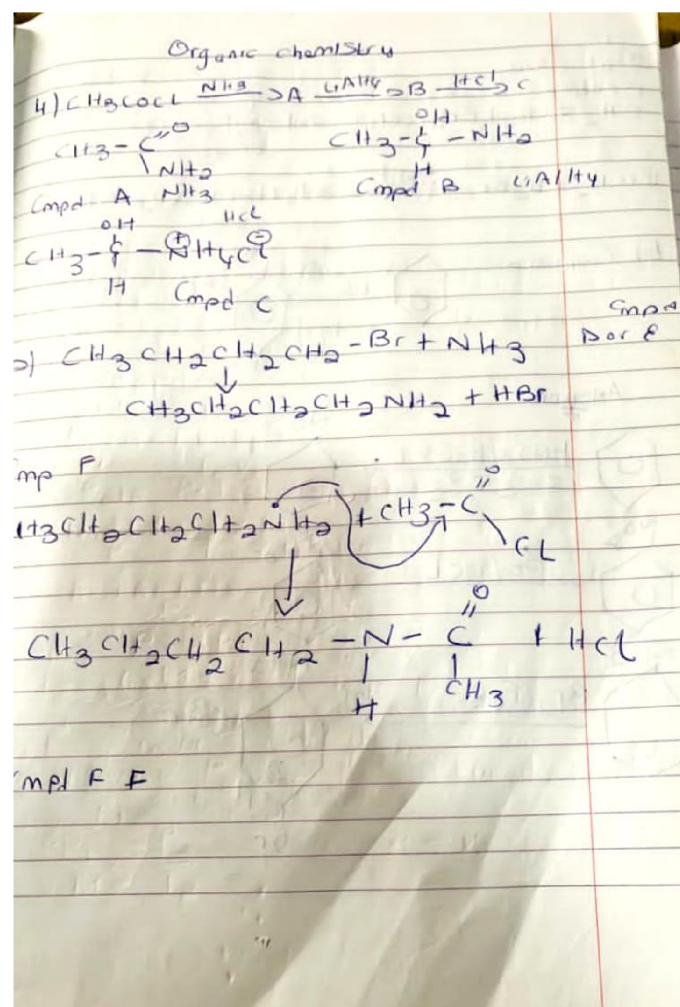
E) A and E should be reduced to a

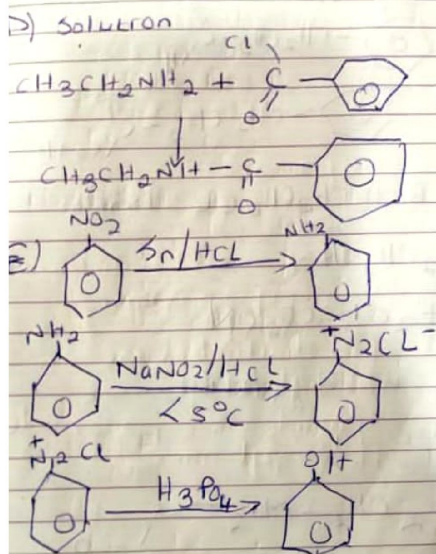
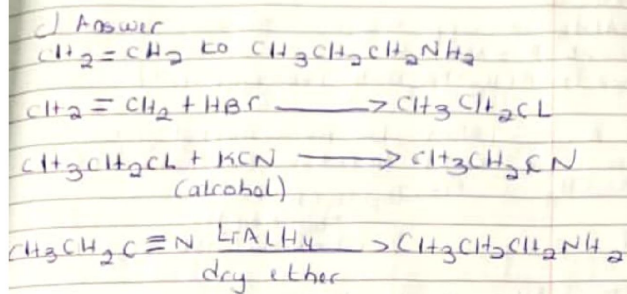
Secondary alcohol but aldehyde are red to primary alcohol

Q1 n 2

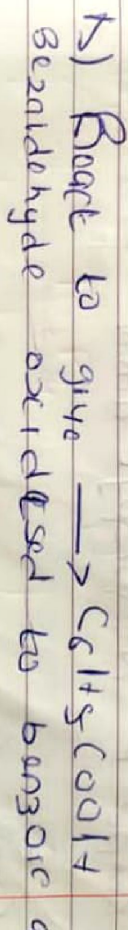
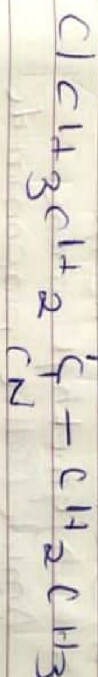
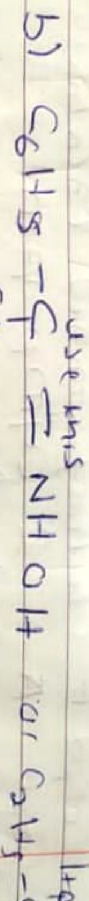
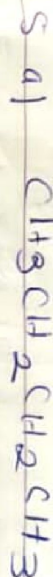
a) Cp d C

b) Cmpd D
 c) Cmpd E
 d) Cmpd A 2 methyl propanoic acid
 Cmpd B 2 methyl butanoic acid
 Cmpd C methyl propanoate
 Cmpd D ~~Butanoic acid~~ ~~acetic acid~~
 Cmpd E ~~Acetic acid~~ propanoic anhydride
 Propanoic anhydride





Section 7



Question 2

1
Compd A Benzene, compd B

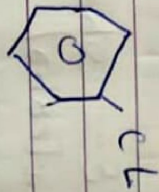


compd A

compd B phenol

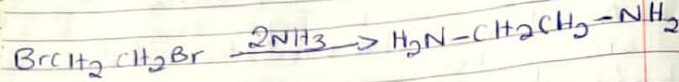
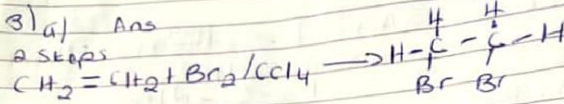


compd C Chlorobenzene

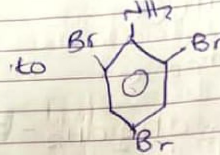


3) a) Ans

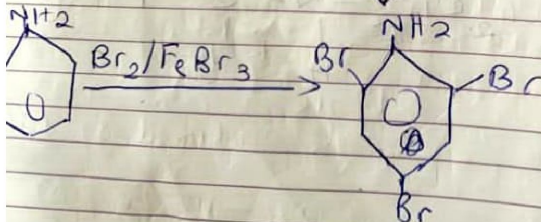
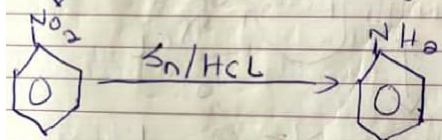
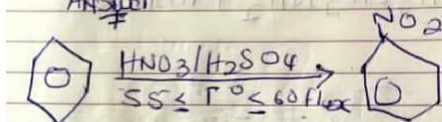
2 steps



b) Conversion



Answer



3) Do it

Q17

1. a) B (primary amine)

b) Cpd C Δ (Secondary amine)

c) Cpd E

d) Cpd F (tertiary amine) (3 Carbon)

e) Cpd B 2 Cyano propano

Cpd B propyl amine

Cpd C 1,3 dinitro benzene

Cpd D (N-ethylmethyl amine)

Cpd E Amide (allite propanamide)

Cpd F N-propyl amine

Q18

a) Cpd C

Q19

I LiAlH_4 in dry heater I Ans

Cpd B = Aldehyde

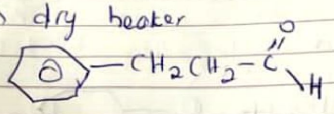
Cpd D $\text{RCH}_2\text{CH}_2\text{COOH}$ (Carboxylic acid)

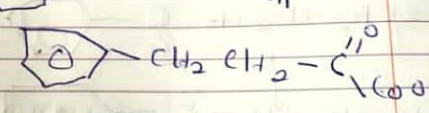
if R is taken to be a methyl group then the compd formed is butanoic acid

$\text{R} = \text{CH}_3$ $\text{R} = \text{CH}_3\text{CH}_2\text{CH}_2$ (Benzene ring)

IV PCl_5 V (Amine) not Acyl hal

VI LiAlH_4 in dry heater

Cpd B formula 

Cpd D formula 

Cpd C $\text{RCH}_2\text{CH}_2\text{CH}_2\text{Cl}$ Formula

II $\text{RCH}_2\text{CH}_2\text{CH}_2\text{OH}$

Cpd E $\text{RCH}_2\text{CH}_2\text{CH}_2\text{CN}$

VII LiAlH_4 in dry heater

III Ammonia

Cpd A $\text{R-CH}_2\text{CH}_2\text{CH}_2\text{-O}$