

Topic :-HALOALKANES AND HALOARENES

2 (b)

Westrosol is formed during addition of Cl_2 on $\text{CH}\equiv\text{CH}$ followed with action of lime. It is a very good solvent.

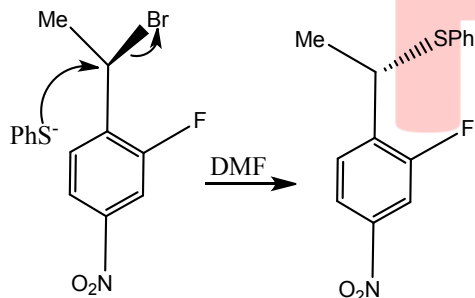


3 (b)

Elimination reaction.

6 (a)

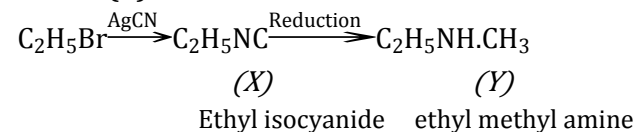
PhS^- is a strong nucleophile and dimethyl formamide (DMF) is a highly polar aprotic solvent. Condition indicates that nucleophilic substitution ($\text{S}_{\text{N}}2$) takes place at 2° benzylic place, stereochemically, it involves inversion of configuration.



7 (a)

$\text{C}_2\text{H}_5\text{Br}$ gives yellow ppt. of AgBr whereas, $(\text{CH}_3)_2\text{CHCl}$ gives white ppt. if AgCl .

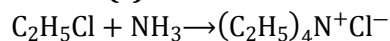
8 (d)



9 (d)

$\text{S}_{\text{N}}1$ order is $\text{TH} > \text{SH} > \text{PH}$.

10 (c)

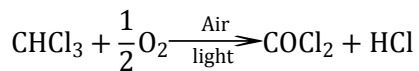


12 (b)

CH_3CHCl_2 gives aldehyde; $\text{CH}_2\text{ClCH}_2\text{Cl}_2$ gives glycol.

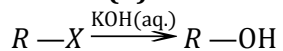
14 (c)

Chloroform is oxidised by air in the presence of light to form phosgene or carbonyl chloride which is poisonous gas.



Chloroform phosgene

15 (d)



16 (a)

$\text{CH}_3\text{CHBrCH}_2\text{CH}_2\text{CH}_3 \xrightarrow{\text{C}_2\text{H}_5\text{OK}} \text{CH}_3\text{CH}=\text{CHCH}_2\text{CH}_3$ α -, β - elimination gives *trans*-isomers as main product.

18 (c)

Oxidation of CHCl_3 occurs in air and light.

PE

ANSWER-KEY

Q.	1	2	3	4	5	6	7	8	9	10
A.	C	B	B	D	A	A	A	D	D	C
Q.	11	12	13	14	15	16	17	18	19	20
A.	D	B	A	C	D	A	A	C	C	B

PE