

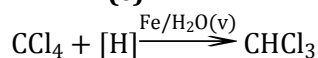
CLASS : XIIth
DATE :

SOLUTION

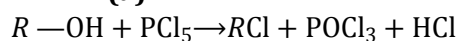
SUBJECT : CHEMISTRY
DPP NO. :9

Topic :-HALOALKANES AND HALOARENES

1 (c)



2 (a)



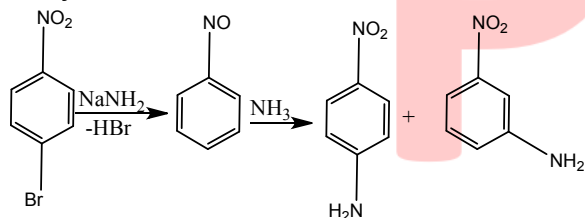
5 (c)

$\text{R}-\text{I} > \text{R}-\text{Br} > \text{R}-\text{Cl} > \text{R}-\text{F}$; reactivity order due to halogen atom.

$3 > 2 > 1^\circ$; reactivity order due to alkyl group.

6 (c)

Aryl halides in presence of strong base like NaNH_2 , gives nucleophilic substitution reaction through benzyne intermediate.



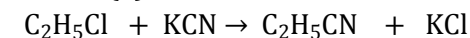
7 (b)

Rest all replace $-\text{OH}$ by $-\text{Cl}$.

8 (c)

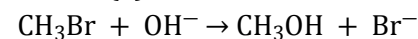
$-\text{OH}$ group is converted into $-\text{Cl}$ group by SOCl_2 or anhydrous $\text{ZnCl}_2/\text{conc. HCl}$ or HCl etc.

9 (a)



Chloroethane alcoholic propanenitrile

10 (a)

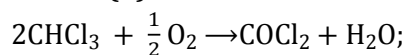


This reaction proceeds by $\text{S}_\text{N}2$ mechanism.

Rate \propto [substrate][nucleophile]

Rate \propto $[\text{CH}_3\text{Br}][\text{OH}^-]$

1 (b)



COCl_2 , i.e., phosgene is poisonous gas.

12 (d)

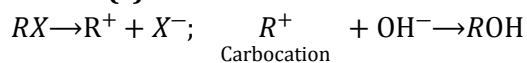
Westrosol is formed during addition of Cl_2 on $\text{CH}\equiv\text{CH}$ followed with action of lime. It is a very good solvent.



14 (c)

C—Mg bond is covalent but polar.

15 (c)



17 (a)

1. Iodoform test is done to detect presence of CH_3CO group in organic compounds.
2. Fehling solution identifies aldehydes.
3. Tollen's reagent identifies aldehydes.
4. Schiff's reagent identifies aldehydes.

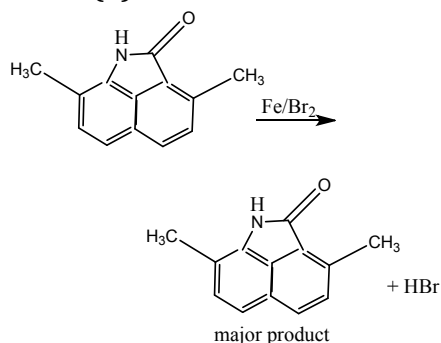
Methyl ketone is $\text{CH}_3-\overset{\text{O}}{\parallel}{\text{C}}-\text{R}$.



∴ It has CH_3-C group. It is tested by using iodoform test.

The compound having CH_3CO group give yellow ppt. on reaction with I_2 and aqueous alkali.

18 (b)



It is electrophilic substitution, so electrophile must be attacked on *o/p*-position due to higher electron density on this position. In this ring, the attached $-\text{NH}-$ group will have high electron density due to resonance and *ortho* position is blocked, so electrophile is attached on *para* position.

20 (c)
CCl₄ is covalent compound.

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

PE