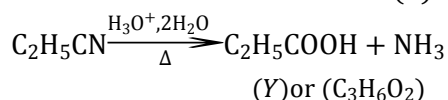
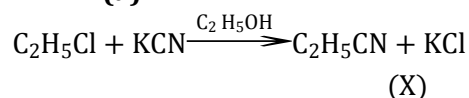


Topic :-HALOALKANES AND HALOARENES

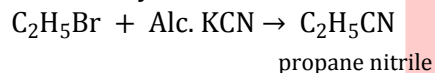
1 (a)



So, the molecular formula of the Y is C₃H₆O₂.

2 (a)

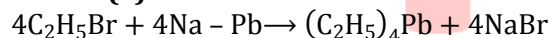
When ethyl bromide reacts with alcoholic KCN, propane nitrile is obtained as main product.



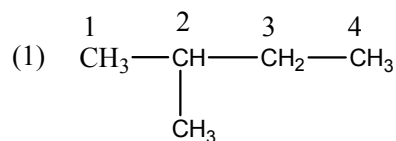
4 (d)

Carbylamine reaction is characteristic reaction for primary amine and chloroform.

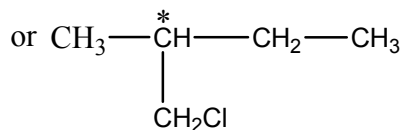
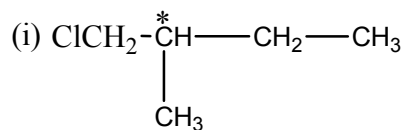
5 (a)



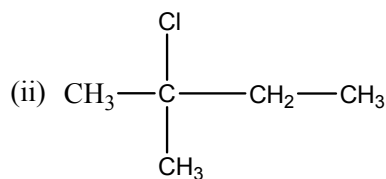
6 (d)



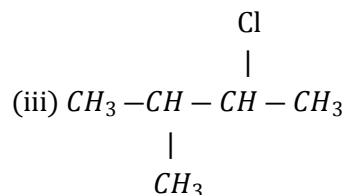
Its monochloro derivatives are follows



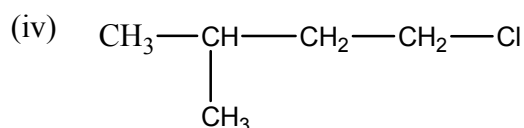
It will exist as enantiomers pair *d* and *l*-forms



no asymmetric C atom



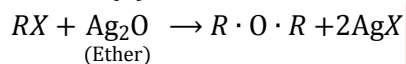
It will exist as enantiomeric pair (*d*- and *l*- forms)



No asymmetric carbon atom

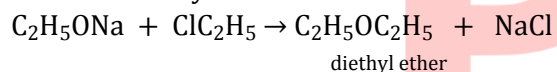
Hence, only two enantiomeric pairs will be obtained by the monochlorination of 2-methylbutane.

7 (d)

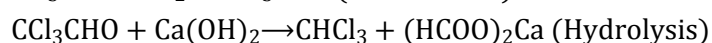
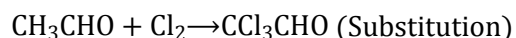
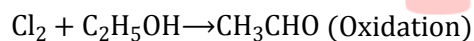


8 (a)

Williamson's synthesis



9 (c)



10 (a)

Iodoform test is given by the compounds containing either

|

$\text{CH}_3\text{CO} -$ group or CH_3CHOH group.

The structures of the given compounds are as

1. $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$
2. $\text{CH}_3\text{COC}_6\text{H}_5$
3. CH_3CHO
4. $\text{CH}_3\text{COC}_2\text{H}_5$

$\therefore n$ butyl alcohol does not give iodoform test because it does not possess the

|

CH₃CO – or CH₃CHOH group.

11 (c)

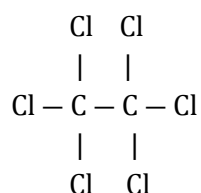
It is not a colouring material.

13 (b)

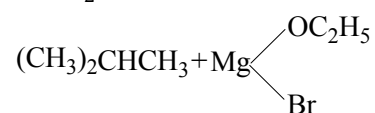
Alkyl halides are less soluble in water. They are polar but fail to form H-bonds with water.

14 (b)

Hexachloroethane is also called artificial camphor. Its structure is



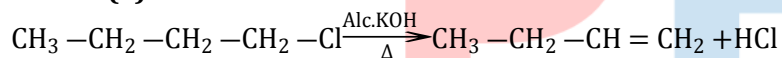
15 (d)



17 (b)

Dipole moment of CH₃Cl is more than CH₃F due to larger C—X bond. Also electronegativity of Br being less than F and Cl and thus in spite of larger C—X bond dipole moment of CH₃Br is lowest.

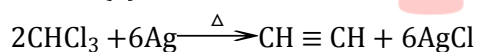
19 (a)



1-chlorobutane

butene-1

20 (a)



ANSWER-KEY

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

PE