

DPP

DAILY PRACTICE PROBLEMS

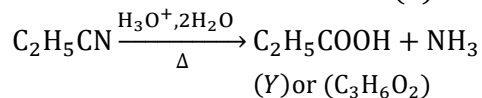
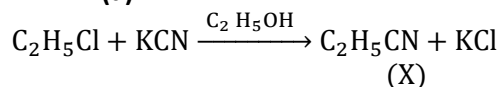
CLASS : XIIth
DATE :

SOLUTION

SUBJECT : CHEMISTRY
DPP NO. :1

Topic :-HALOALKANES AND HALOARENES

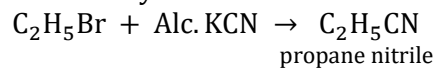
1 (a)



So, the molecular formula of the Y is C₃H₆O₂.

2 (a)

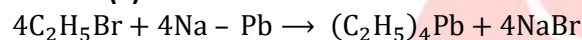
When ethyl bromide reacts with alcoholic KCN, propane nitrile is obtained as main product.



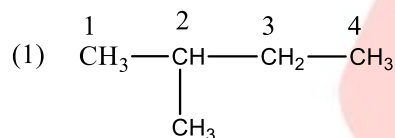
4 (d)

Carbylamine reaction is characteristic reaction for primary amine and chloroform.

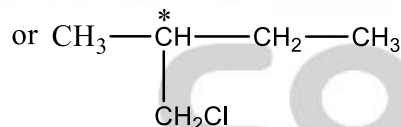
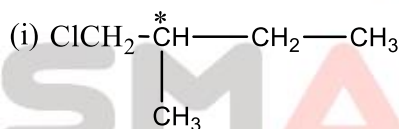
5 (a)



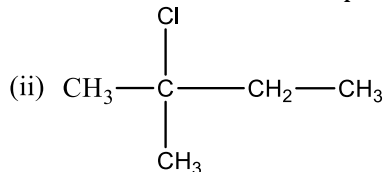
6 (d)



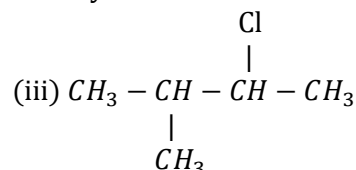
Its monochloro derivatives are follows



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

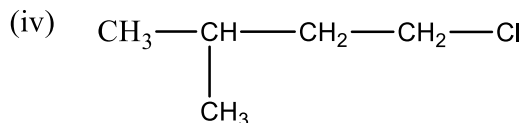


no asymmetric C atom





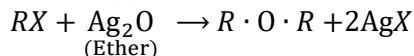
It will exist as enantiomeric pair (*d*- and *l*- forms)



No asymmetric carbon atom

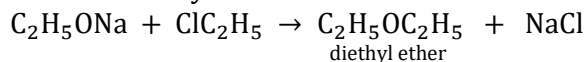
Hence, only two enantiomeric pairs will be obtained by the monochlorination of 2-methylbutane.

7 (d)

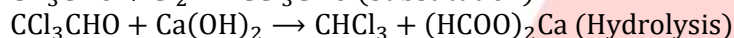
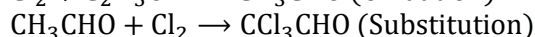
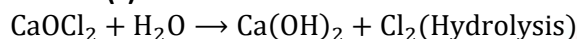


8 (a)

Williamson's synthesis



9 (c)

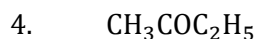
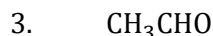
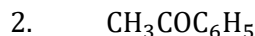


10 (a)

Iodoform test is given by the compounds containing either

$\begin{array}{c} | \\ \text{CH}_3\text{CO} - \text{roup} \text{ or } \text{CH}_3\text{CHOH} \text{ group.} \end{array}$

The structures of the given compounds are as



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

$\begin{array}{c} | \\ \text{CH}_3\text{CO} - \text{ or } \text{CH}_3\text{CHOH} \text{ group.} \end{array}$

11 (c)

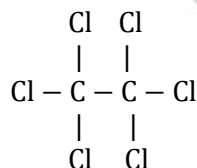
It is not a colouring material.

13 (b)

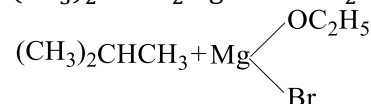
Alkyl halides are less soluble in water. They are polar but fail to form H-bonds with water.

14 (b)

Hexachloroethane is also called artificial camphor. Its structure is



15 (d)

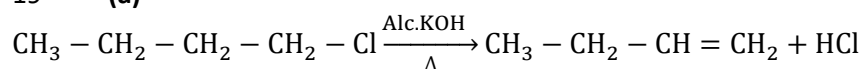


17 (b)

Dipole moment of CH_3Cl is more than CH_3F due to larger C—X bond. Also electronegativity of Br being less

than F and Cl and thus inspite of larger C—X bond dipole moment of CH₃Br is lowest.

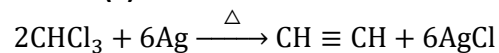
19 (a)



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

**SMARTLEARN
COACHING**