

DPP

DAILY PRACTICE PROBLEMS

CLASS : XIIth
DATE :

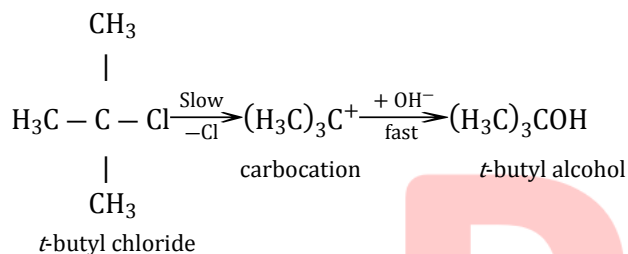
SOLUTION

SUBJECT : CHEMISTRY
DPP NO. :4

Topic :-HALOALKANES AND HALOARENES

1 (a)

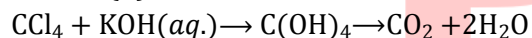
Tertiary halide preferentially undergo S_N1 substitution as they can give stable carbocation.



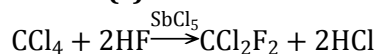
2 (d)

In CHCl_3 , carbon is sp^3 -hybridised.

3 (d)

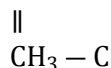


4 (c)

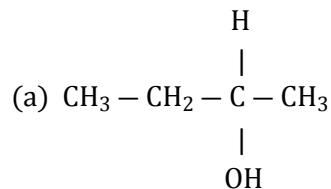


5 (c)

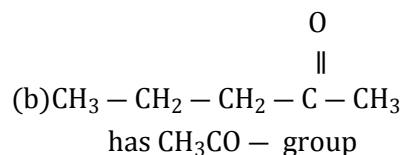
Iodoform test is positive for compounds which have O

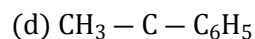


group or 2° alcohol group.



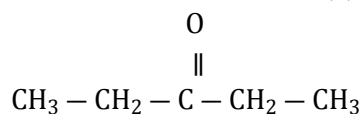
has 2° alcoholic group





has $\text{CH}_3\text{CO} -$ group

∴ Compounds in choice (a), (b) and (d) give positive iodoform test.



∴ This compound doesn't have $\text{CH}_3\text{CO} -$ or 2° alcoholic group.

∴ It does not give positive iodoform test.

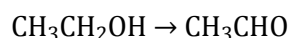
6 (a)

In $\text{C}_6\text{H}_5\text{Cl}$, Cl is firmly attached to C_6H_6 nucleus.

7 (b)

For iodoform reaction, we need an oxidising agent which is provided by only $\frac{\text{I}_2}{\text{KOH}}$, i.e., IO^- ion.

Hypoiodide ion first oxidises



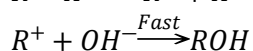
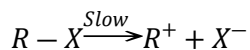
and then brings about iodination of CH_3CHO to $\text{I}_3\text{C} \cdot \text{CHO}$. Alkaline hydrolysis of Cl_3CHO then gives

CH_3I . The other three reagents do not contain any oxidising species and hence, fail to give iodoform

test.

9 (b)

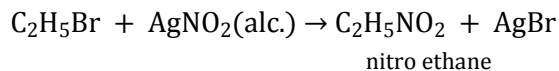
Statement (b) is not correct regarding the $\text{S}_{\text{N}}1$ reaction for alkyl halide because in $\text{S}_{\text{N}}1$ reaction no inversion takes place. The removal of X and the attachment of OH^- will take place from the same side.



10 (c)

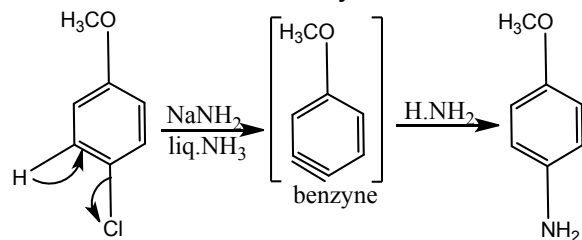
Alkyl halides are soluble in organic solvents.

11 (d)



13 (a)

This reaction follows benzyne mechanism.

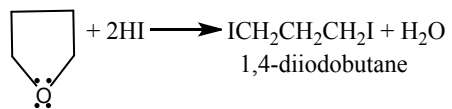


15 (d)

Grignard reagent give nucleophilic addition (of R^-) at +ve centre.

16 (a)

Tetrahydrofuran when treated with excess HI, give 1, 4-diiodobutane.



17 (b)

I_2 possesses antiseptic nature.

19 (d)

Wurtz's reaction involves the

PE

ANSWER-KEY

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

PE