

Gaining Apex Coaching Centre

(Where Toppers make..... Toppers)

Compiled By: Dapinder Sir



CLASS : XIIth

CHEMISTRY

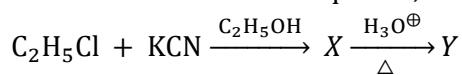
DATE :

SUBJECT :

DPP NO. : 1

Topic :-HALOALKANES AND HALOARENES

1. In the reaction sequence,



What is the molecular formula of Y?

- a) $\text{C}_3\text{H}_6\text{O}_2$ b) $\text{C}_3\text{H}_5\text{Nc}$ c) $\text{C}_2\text{H}_4\text{O}_2$ d) $\text{C}_2\text{H}_6\text{O}$
2. Which one of the following forms propane nitrile as the major product?
- a) Ethyl bromide + alcoholic KCN b) Propyl bromide + alcoholic KCN
c) Propyl bromide + alcoholic AgCN d) Ethyl bromide + alcoholic AgCN
3. The compound A forms B with sodium metal and again A forms C with PCl_5 , but B and C form diethyl ether. Therefore A, B and C are:
- a) $\text{C}_2\text{H}_5\text{OH}$, $\text{C}_2\text{H}_5\text{ONa}$, $\text{C}_2\text{H}_5\text{Cl}$ b) $\text{C}_2\text{H}_5\text{OH}$, $\text{C}_2\text{H}_5\text{Cl}$, $\text{C}_2\text{H}_5\text{ONa}$ c) $\text{C}_2\text{H}_5\text{OH}$, $\text{C}_2\text{H}_5\text{Cl}$, $\text{C}_2\text{H}_4\text{Cl}_2$ d) $\text{C}_2\text{H}_5\text{OH}$, $\text{C}_2\text{H}_5\text{Cl}$, $\text{C}_2\text{H}_5\text{ONa}$
4. For the carbylamine reaction we need hot alcoholic KOH and:
- a) Any amine and chloroform
b) Chloroform and silver powder
c) A primary amine and an alkyl halide
d) Any monoalkyl amine and trichloro methane
5. Ethyl bromide reacts with lead-sodium alloy to form:
- a) Tetraethyl lead b) Tetraethyl bromide c) Both (a) and (b) d) None of these
6. The number of possible enantiomeric pairs that can be produced during mono-chlorination of 2-methyl butane is
- a) 3 b) 4 c) 1 d) 2
7. Alkyl halides on treatment with a suspension of Ag_2O moist in ether gives:

Gaining Apex Coaching Centre

(Where Toppers make..... Toppers)

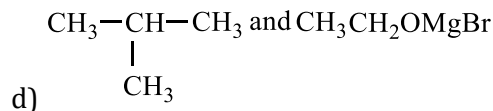
Compiled By: Dapinder Sir

- a) Alkanol b) Alkanal c) Alkanes d) Alkoxy alkane
8. The conversion of ethyl chloride into diethyl ether takes place by
 a) Williamson's synthesis b) Perkin's reaction
 c) Wurtz reaction d) Grignard reaction
9. Which process does not occur during formation of CHCl_3 from $\text{C}_2\text{H}_5\text{OH}$ and bleaching powder?
 a) Hydrolysis b) Oxidation c) Elimination d) Chlorination
10. Which of the following does not answer iodoform test?
 a) *n*-butyl alcohol b) Acetophenone c) Acetaldehyde d) Ethylmethyl ketone
11. Methyl bromide is not used:
 a) As an insecticide
 b) As disinfectant
 c) For dyeing clothes
 d) As disinfectant for young fruit trees
12. Which compound on reaction with ethyl magnesium bromide and water will form 2-methyl-2-butanol?
 a) CH_3COCH_3 b) $\text{CH}_3\text{COOCH}_3$ c) $\text{CH}_3\text{CH}_2\text{CHO}$ d) $\text{C}_2\text{H}_5\text{COCH}_3$
13. Alkyl halides are less soluble in water because
 a) they ionise in water b) they do not form H-bonds with water
 c) they are highly viscous d) they have very strong C – X bond
14. Hexachloroethane is also called
 a) Artificial sweetner b) Artificial camphor c) Artificial polymer d) None of these
15. Isobutyl magnesium bromide with dry ether and absolute alcohol gives:
 $\text{CH}_3\cdot\text{CH}\cdot\text{CH}_2\text{OH}$ and $\text{CH}_3\cdot\text{CH}_2\text{MgBr}$
 a) $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3\cdot\text{CH}\cdot\text{CH}_2\cdot\text{CH}_2\cdot\text{CH}_3 \end{array}$ and $\text{Mg}(\text{OH})\text{Br}$
 b) $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3\cdot\text{CH}\cdot\text{CH}_2\cdot\text{CH}_2\cdot\text{CH}_3 \end{array}$ and $\text{Mg}(\text{OH})\text{Br}$
 c) $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3-\text{CH}-\text{CH}_3 \end{array}, \text{CH}_2=\text{CH}_2$ and $\text{Mg}(\text{OH})\text{Br}$

Gaining Apex Coaching Centre

(Where Toppers make..... Toppers)

Compiled By: Dapinder Sir



16. Strong reducing agent converts CHCl_3 into:
a) C_2H_2 b) C_2H_6 c) C_2H_4 d) CH_4
17. Which of the following are arranged in decreasing order of dipole moment:
a) $\text{CH}_3\text{Cl}, \text{CH}_3\text{Br}, \text{CH}_3\text{F}$ b) $\text{CH}_3\text{Cl}, \text{CH}_3\text{F}, \text{CH}_3\text{Br}$ c) $\text{CH}_3\text{Br}, \text{CH}_3\text{Cl}, \text{CH}_3\text{F}$ d) $\text{CH}_3\text{Br}, \text{CH}_3\text{F}, \text{CH}_3\text{Cl}$
18. Fluorobenzene ($\text{C}_6\text{H}_5\text{F}$) can be synthesised in the laboratory
a) By heating phenol with HF and KF
b) From aniline by diazotisation followed by heating the diazonium salt with HBF_4
c) By direct fluorination of benzene with F_2 gas
d) By reacting bromobenzene with NaF solution
19. 1-chlorobutane on reaction with alcoholic potash gives
a) but-1-ene b) butan-1-ol c) but-2-ene d) butan-2-ol
20. On warming with silver powder, chloroform is converted into
a) Acetylene b) Hexachloroethane
c) 1, 1, 2, 2-tetrachloroethane d) Ethylene