

DPP

DAILY PRACTICE PROBLEMS

Class : XIIth

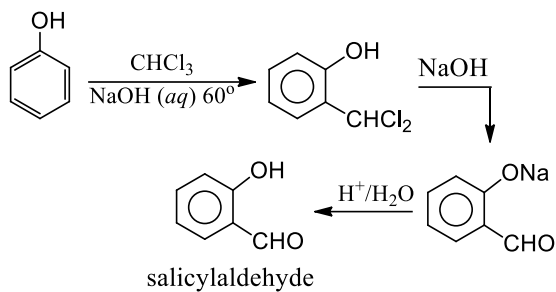
Date :

Subject : CHEMISTRY

DPP No. : 1

Topic :- Alcohols, Phenols & Ethers

- 2 (d)
Peppermint is soluble in alcohol.
- 3 (d)
 $\text{CH}_3\text{CH}_2\text{OH} \xrightarrow{\text{Cl}_2} \text{CH}_3\text{CHO} \xrightarrow{\text{Cl}_2} \text{CCl}_3\text{CHO}$
- 4 (b)
Molasses, the brown syrupy liquid left after crystallization contains about 50% sugar.
- 5 (a)
 $R-\text{SH}$ are thiols or mercaptans.
- 6 (c)
Chloral hydrate $[\text{CCl}_3\text{CH}(\text{OH})_2]$ is stable due to H-bonding
- 8 (b)
 $\text{ROH} + \text{Na} \rightarrow \text{RONa} + \frac{1}{2}\text{H}_2$
- 9 (c)
Grignard reagent (RMgX) reacts with only those compounds which contains acidic hydrogen or which contains carbonyl group.
Dimethyl ether (CH_3OCH_3) due to absence of both acidic hydrogen and carbonyl group does not react with Grignard reagent.
- 10 (b)
 $\text{CH}_3-\text{O}-\text{CH}(\text{CH}_3)_2 + \text{HI} \rightarrow \text{CH}_3\text{I} + (\text{CH}_3)_2\text{CHOH}$ Halogen goes with simpler alkyl gp.
- 11 (d)
 $\text{C}_2\text{H}_5\text{ONa} + \text{C}_2\text{H}_5\text{X} \rightarrow \text{C}_2\text{H}_5\text{OC}_2\text{H}_5$
- 13 (b)
(A) CH_3CN ; (B) CH_3COOH ; (C) $\text{C}_2\text{H}_5\text{OH}$.
- 14 (d)
 $\text{Ester} + \text{NaOH} \rightarrow \text{Sodium salt of acid} + \text{Alcohol}$.
- 15 (d)
All are dehydrating agents.
- 17 (d)
 $\text{Alcohol} \xrightarrow{[\text{O}]} \text{Aldehyde or ketones with same carbon atoms}$
(p,s)
- 18 (d)
Phenol, on refluxing with chloroform and sodium hydroxide followed by hydrolysis yields *o*-hydroxy benzaldehyde

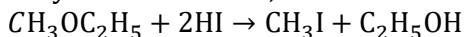


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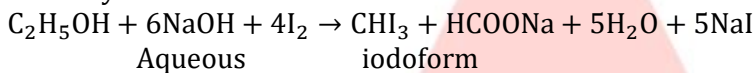
(d)

Molecular formula C_3H_8O ($C_nH_{2n+2}O$) suggests that the organic compound is either alcohol or ether.

Since, the compound on reaction with HI gives two different compounds, It must be an unsymmetrical ether, and its formula must be $CH_3OC_2H_5$ (methoxyethane).



Methoxyethane X Y



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(a)

Glycerol is generally used as an antifreeze reagent for making explosives.

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



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COACHING**