DPP
DAILY PRACTICE PROBLEMS

Class : XIIth **Subject : CHEMISTRY**
Date : **DPP No. : 1**

Topic :- Alcohols, Phenols & Ethers

1. Butan-2-ol is:
   a) Primary alcohol b) Secondary alcohol c) Tertiary alcohol d) None of these

2. Pepperment can be extracted from plant sources by using solvents like:
   a) NH_3 b) H_2O c) CH_3COOH d) C_2H_5OH

3. Chlorine reacts with ethanol to give:
   a) Ethyl chloride b) Chloroform c) Acetaldehyde d) Chloral

4. Molasses contains:
   a) 70 % sugar b) 50% sugar c) 60% sugar d) 10% sugar

5. Which of the following are known as mercaptans?
   a) Thio-alcohols b) Thio-ethers c) Thio-aldehydes d) Thio-acids

6. Which forms most stable hydrate?
   a) CH_3CHO b) C_6H_5CHO c) CCl_3CHO d) CH_3COCH_3

7. An organic compound dissolved in dry benzene evolved hydrogen on treatment with sodium. It is:
   a) A ketone b) An aldehyde c) A tertiary amine d) An alcohol

8. Sodium ethoxide is obtained by the reaction of ethyl alcohol with:
   a) NaOH b) Na c) NaCl d) $NaHCO_3$

9. Which one of the following compounds will not react with CH_3MgBr?
   a) Ethyl acetate b) Acetone c) Dimethyl ether d) Ethanol

10. The major organic product in the reaction,
    $CH_3—O—CH(CH_3)_2 + HI \longrightarrow$ Product is:
    a) $\begin{matrix} CH_3OC(CH_3)_2 \\ \quad\quad\quad\quad | \\ \quad\quad\quad\quad I \end{matrix}$ b) $CH_3I + (CH_3)_2CHOH$ c) $CH_3OH + (CH_3)_2CHI$ d) $ICH_2OCH(CH_3)_2$

11. Structure of diethyl ether can be confirmed by:
    a) Kolbe's synthesis
    b) Frankland's synthesis
    c) Wurtz's synthesis
    d) Williamson's synthesis

12. Glycerol on oxidation with bismuth nitrate mainly gives:
    a) Glyceric acid b) Tartronic acid c) Mesoxalic acid d) Oxalic acid

13. The end product of the following sequence is:

$$CH_3Br \xrightarrow{KCN(alc.)} (A) \xrightarrow{H_3O^+} (B) \xrightarrow[Ether]{LiAlH_4} (C)$$

    a) CH_3CHO b) CH_3CH_2OH c) CH_3COCH_3 d) CH_4

14. Saponification means hydrolysis of an ester with:
    a) Enzyme b) CH_3COOH c) H_2SO_4 d) NaOH

15. Which of the following can work as dehydrating agent for alcohols?
    a) H_2SO_4 b) Al_2O_3 c) H_3PO_4 d) All of these

16. In CH_3CH_2OH the bond which most readily undergoes heterolytic cleavage during its reaction with CH_3COOH/H_2SO_4 is:
    a) C—C b) C—O c) O—H d) C—H

17. When ethyl alcohol vapours mixed with air, are passed over heated platinized asbestos, the compound formed is:
    a) Acetaldehyde b) Diethyl ether c) Acetone d) None of these

18. Which of the following reactions will not yield *p*-tert butylphenol?

    a) $\text{Phenol} + CH_3 - \underset{\displaystyle CH_3}{\overset{\displaystyle |}{C}} = CH_2 \xrightarrow{H^+}$

    b) $\text{Phenol} + (CH_3)_3COH \xrightarrow{H^+}$

    c) $\text{Phenol} + (CH_3)_3C.Cl \xrightarrow{AlCl_3}$

    d) $\text{Phenol} + CHCl_3 \xrightarrow{NaOH}$

19. One mole of an organic compound *A* with the formula C_3H_8O reacts completely with two moles of HI to form *X* and *Y*. When *Y* is boiled with aqueous alkali it forms *Z*. *Z* answers the iodoform test. The compound *A* is
    a) Propan-2-ol b) Propan-1-ol c) Ethoxyethane d) Methoxyethane

20. Which one of the following alcohol is used as an antifreeze reagent for making explosives?
    a) Glycerol b) Glycol c) Ethanol d) Phenol