

Class : XIIth
Date :

Subject : CHEMISTRY
DPP No. : 10

Topic :- Alcohol, Phenol & Ethers

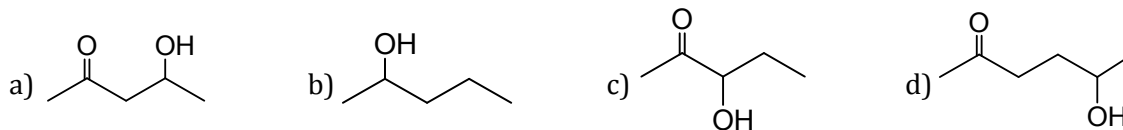
- An organic compound 'X' on treatment with pyridinium chloro chromate in dichloromethane gives compound 'Y'. Compound 'Y', reacts with I₂ and alkali to form triiodomethane. The compound 'X' is
a) C₂H₅OH b) CH₃CHO c) CH₃COCH₃ d) CH₃COOH
- Ethyl alcohol is industrially prepared from the ethylene by:
a) Permanganate oxidation
b) Catalytic reduction
c) Absorbing in sulphuric acid followed by hydrolysis
d) Fermentation
CH₂ClCH₂OH is stronger acid than CH₃CH₂OH because:
3. a) +IE of Cl disperses -ve charge on O -atom to produce more stable anion
b) -IE of Cl disperses -ve charge on O -atom to produce more stable anion
c) +IE of Cl increases -ve charge on O -atom to alcohol
d) None of the above
Alcohol (CH₃)₂CHCH₂OH cannot be obtained by
4. a) HCHO + (CH₃)₂CHCH₂MgX b) $\begin{array}{c} \text{CH}_2-\text{CH}_2 \\ \diagdown \quad / \\ \text{O} \end{array} + (\text{CH}_3)_2\text{CHMgX}$
c) (CH₃)₂CHCH₂CH₂MgX + O₂ air d) (CH₃)₂CHCHO + CH₃MgX
Lucas reagent is used to distinguish among primary, secondary and tertiary:
5. a) Alkyl halides b) Alcohols c) Aliphatic amines d) Aromatic amines
Ketone upon treatment with Grignard reagent gives
6. a) Primary alcohol b) Secondary alcohol c) Tertiary alcohol d) Aldehyde
The starting material for the preparation of CH₃I in one step reaction is:
7. a) CH₃OH b) C₂H₅OH c) CH₃CHO d) CH₃COCH₃

8. From methyl alcohol we get:

- a) Neoprene rubber
- b) Perspex rubber
- c) Bakelite a hard plastic
- d) Sponge rubber

Which one of the following will most readily be dehydrated in acidic condition?

9.



10. *Tert*-butyl methyl ether on heating with anhydrous HI in ether gives

- a) $\text{CH}_3\text{OH} + (\text{CH}_3)_3\text{Cl}$
- b) $\text{CH}_3\text{I} + (\text{CH}_3)_3\text{COH}$
- c) $\text{CH}_3\text{I} + (\text{CH}_3)_3\text{Cl}$
- d) None of the above

11. Diethyl ether is decomposed on heating with:

- a) NaOH
- b) Water
- c) KMnO_4
- d) HI

12. Ether fire can be extinguished by:

- a) Sand
- b) Pyrene
- c) CO_2
- d) All of these

13. Diethyl ether on reaction with CO in specific conditions forms:

- a) Acetic acid
- b) Carbon dioxide
- c) Ethyl propanoate
- d) Acetyl chloride

14. Most viscous among the following is:

- a) Propan-1-ol
- b) Propan-2-ol
- c) Propane-1, 2-diol
- d) Propane-1,2,3-triol

15. In the fermentation of sugar molasses, the percentage of ethanol formed is:

- a) 10 %
- b) 40 %
- c) 95 %
- d) 70 %

16. A liquid was mixed with ethanol and a drop of concentrated H_2SO_4 was added. A compound with a fruity smell was formed. The liquid was:

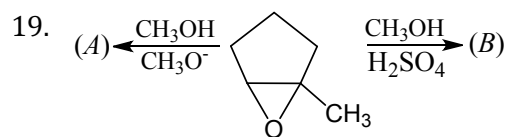
- a) HCHO
- b) CH_3COCH_3
- c) CH_3COOH
- d) CH_3OH

17. Ethyl alcohol reacts with following to form a compound of fruity smell:

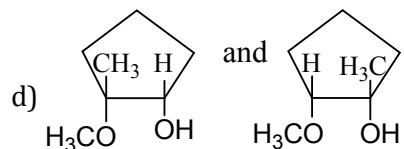
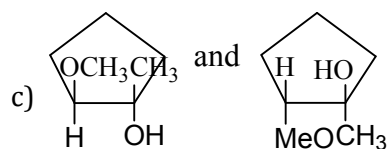
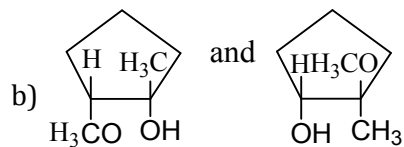
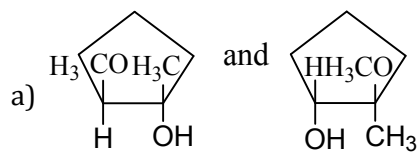
- a) PCl_5
- b) $\text{K}_2\text{Cr}_2\text{O}_7 + \text{H}_2\text{SO}_4$
- c) CH_3COOH
- d) CH_3COCH_3

18. Carbolic acid is

- a) HCOOH
- b) CH_3COOH
- c) $\text{C}_6\text{H}_5\text{COOH}$
- d) $\text{C}_6\text{H}_5\text{OH}$



A and B are



20. 2-methyl-2-butanol on treatment with HCl gives predominantly

- a) 2-chloro-3-methylbutane
- c) 2-chloro-2-methylbutane

- b) 2,2-dimethylpentane
- d) 1-chloro-2-methylbutane

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