

## ECAT Chemistry Chapter 22 Alcohols, Phenols and Ethers

| Sr | Questions   | Answers Choice  |
|----|---|---|
| 1  | When ethylene glycol is heated with acidified potassium permanganate, the main organic compound obtained is               | A. Oxalic acid<br>B. Glyoxal<br>C. Formic acid<br>D. Ethanol  |
| 2  | Methanol is prepared from CO and H <sub>2</sub> using catalyst:   | A. ZnO<br>B. Cr <sub>2</sub> O <sub>3</sub><br>C. Pt<br>D. Ni   |
| 3  | Methanol and ethanol can be distinguished by  | A. Iodoform test<br>B. Lucas test<br>C. Dichromate/H <sub>2</sub> SO <sub>4</sub> oxidation test<br>D. Flame test   |
| 4  | How many secondary alcoholic groups are present in the structure of glucose<br>OHC CHOH CHOHCH OH CHOH CH <sub>2</sub> OH | A. 1<br>B. 2<br>C. 3<br>D. 4  |
| 5  | Propanone is the product obtained by dehydrogenation of   | A. 2-Propanol<br>B. 1-Propanol<br>C. Isobutyl alcohol<br>D. Propanethoil  |
| 6  | Alcohol reacts with halogen acid to produce   | A. Alkyl halides<br>B. Aldehydes<br>C. Ketones<br>D. Alkanes  |
| 7  | Which compound shows hydrogen bonding   | A. C <sub>2</sub> H <sub>6</sub><br>B. C <sub>2</sub> H <sub>5</sub> Cl<br>C. CH <sub>3</sub> -O-CH <sub>3</sub><br>D. C <sub>2</sub> H <sub>5</sub> OH                 |
| 8  | Which of the following compound is known as oil of winter green?  | A. Phenyl benzoate<br>B. Phenyl salicylate<br>C. Phenyl acetate<br>D. Methyl salicylate   |
| 9  | Which compound is more soluble in water?  | A. C <sub>2</sub> H <sub>5</sub> OH<br>B. C <sub>5</sub> H <sub>5</sub> OH<br>C. CH <sub>3</sub> OCH <sub>3</sub><br>D. n-Hexanol                                       |
| 10 | The boiling points of alcohols are higher than the corresponding alkanes, This is because                                 | A. Of hydrogen bonding existing between molecules of alcohols<br>B. Alkanes are dipolar compounds<br>C. Alcohols are sweet in taste<br>D. Alcohols are soluble in water |
| 11 | Rectified spirit contains alcohol about   | A. 80%<br>B. 85%<br>C. 90%<br>D. 95%  |
| 12 | Dow's process is used for the preparation of  | A. Ester<br>B. Ethers<br>C. Alcohols<br>D. Phenols  |
| 13 | Alcohols are derivatives of:  | A. Benzene<br>B. Alkanes<br>C. Alkenes<br>D. Alkynes  |
| 14 | Which of the following process is employed to convert alkyl halide into alcohol?  | A. Addition<br>B. Substitution<br>C. Dehydrohalogenation<br>D. Molecular rearrangement  |
|    | When alcohol reacts with concentrated H <sub>2</sub> SO <sub>4</sub> to form ether, the intermediate compound             | A. carbonium ion  |

- 15 When alcohol reacts with concentrated  $\text{H}_2\text{SO}_4$  intermediate compound formed as
- 16 The organic compounds which derivative of hydrocarbons due to oxygen is:
- 17 Mild oxidation of glycerol with  $\text{H}_2\text{O}_2/\text{FeSO}_4$  gives
- 18 Which bond shows maximum hydrogen bonding with water?
- 19 Organic acid without a carboxylic acid group is
- 20 
- B. alkoxy ion  
C. alkyl hydrogen sulphate  
D. non of these
- A. Phenol  
B. Alcohol  
C. Alkyl halide  
D. Ether
- A. Glyceraldehyde  
B. Dihydroxy acetone  
C. Glycerose  
D. None
- A.  $\text{CH}_3\text{OH}$   
B.  $\text{C}_2\text{H}_5\text{OH}$   
C.  $\text{CH}_3\text{---O---CH}_3$   
D.  $\text{C}_6\text{H}_5\text{OH}$
- A. Ascorbic acid  
B. Vinegar  
C. Oxalic acid  
D. Picric acid
- A. A primary alcohol  
B. A secondary alcohol  
C. An ether  
D. A phenol