

**C K SCHOOL OF PRACTICAL KNOWLEDGE MAT H S SCHOOL CUD-1****Monohydric alcohol**

1. The C-OH bond angle in methanol is reduced from tetrahedral bond angle why?
2. How are the following prepared from Grignard reagents ?
  - a) propan-1-ol
  - b) propan-2-ol
  - c) butan-2-ol
3. What is Hydroboration? Give an example.
4. How is crotyl alcohol prepared?
5. How will you distinguish between 1, 2, 3 alcohol by Lucas test ?
6. How will you distinguish between 1, 2, 3 alcohol by Victor Meyer test ?
7. Write the mechanism of SN1 reaction.
8. Write the mechanism of SN2 reaction
9. Write the mechanism of E2 reaction
10. Write the mechanism of E1 reaction
11. Explain Saytzeff's rule with example.
12. What is PCC ? What is the significance of PCC ? Give an example
13. Write a short note on a) Swern oxidation . b) Biological oxidation
14. Write the catalytic reduction of 1,2 alcohols
15. How will you convert 2-methyl -propan-2-ol into 2-methyl prop-1-ene ?

**ETHYLENE GLYCOL (OR) ETHANE-1,2-DIOL**

1. How is ethane-1,2-diol prepared from ethene by using Baeyers reagent?
2. Convert ethane-1,2-diol into ethene.
3. Convert ethane-1,2-diol into 1,2-dinitroxyehane
4. Convert ethane-1,2-diol into oxirane
5. Convert ethane-1,2-diol ethanal
6. How will you convert ethane-1,2-diol into 1,4-dioxane?
7. Write the oxidation reactions of glycol
8. How will you convert ethane-1,2-diol into formaldehyde?

**GLYCEROL (OR) PROPANE-1,2,3-TRIOL**

1. How is glycerol prepared ? (or) What is saponification reaction?
2. Convert glycerol into TNG
3. Write the dehydration reaction of glycerol (or)

convert glycerol into acrolein. (or)

How does glycerol reacts with potassium bi sulphate? (or)

How does glycerol reacts with Conc H<sub>2</sub>SO<sub>4</sub> ?

4. write the oxidation reactions of glycerol

5.What is glycerose? How it is prepared ?

### **PHENOL (OR) HYDROXY BENZENE**

1.How is phenol prepared from a) aniline b) benzene sulphonic acid

2.Convert phenol into a) benzene b) aniline

3.Write Schotten—Baumann reaction

4.Convert phenol into anisole

5.Convert phenol into a) 1,4-benzoquinone b)cyclohexanol

6.How is picric acid prepared from phenol?

7.Write the sulphonation reaction of phenol

8.How is 2,4,6-tribromophenol prepared from phenol ?

9.Write Kolbe's reaction

10.Write Riemer-Tiemann reaction

11.How is phenolphthalein prepared?

12.Write coupling reaction of phenol

13.Give a test to differentiate phenol and alcohol

### **USES**

1.write the uses methanol, ethanol, glycerol, ethylene glycol, phenol, diethyl ether and anisole

### **ETHERS**

1.The C-O-C Bond angle in ether is slightly greater than tetrahedral bond angle . why?

2.Write the mechanism of intermolecular dehydration of alcohol

3.Write Williamson reaction. Give its mechanism

4.How does methoxyethane reacts with one mole HI? Give its mechanism

5.How does diethyl ether reacts with a) PCl<sub>5</sub> b) dil H<sub>2</sub>SO<sub>4</sub> c)Cl<sub>2</sub>/light

6. Write the nitration reaction of anisole

7. what is auto oxidation of ethers?

9.

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