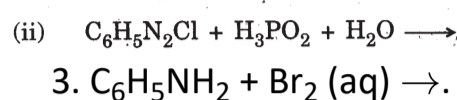
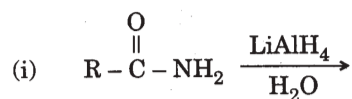


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Q1. Complete the following reaction equations:



Q2. Write main product formed when:

1. Methyl chloride is treated with NaI/ Acetone.
2. 2,4,6-trinitrochlorobenzene is subjected to hydrolysis.
3. n-Butyl chloride is treated with alcoholic KOH.

Q3. How would you convert the following:

1. Phenol to benzoquinone.
2. Propanone to 2-methylpropan-2-ol.
3. Propene to propan-2-ol.

Q4. What happens when

1.  $(\text{CH}_3)_3\text{C}-\text{O}-\text{CH}_3$  is treated with HI,
2. Anisole is treated with  $\text{CH}_3\text{COCl}$ /anhydrous  $\text{AlCl}_3$ ,
3. Phenol is treated with  $\text{Br}_2/\text{CS}_2$ ?

Write chemical equations in support of your answer.

Q5. Write the products formed when  $(\text{CH}_3)_3\text{C}-\text{CHO}$  reacts with the following reagents:

1.  $\text{CH}_3\text{COCH}_3$  in the presence of dilute NaOH.
2. HCN.
3. Conc. NaOH.

Q6. Answer the following:

1. Haloalkanes easily dissolve in organic solvents, why?
2. What is known as a racemic mixture? Give an example.
3. Of the two bromoderivatives,  $\text{C}_6\text{H}_5\text{CH}(\text{CH}_3)\text{Br}$  and  $\text{C}_6\text{H}_5\text{CH}(\text{C}_6\text{H}_5)\text{Br}$ , which one is more reactive in  $\text{S}_{\text{N}}1$  substitution reaction and why?

Q7. 1. Out of  $(\text{CH}_3)_3\text{C}-\text{Br}$  and  $(\text{CH}_3)_3\text{C}-\text{I}$ , which one is more reactive towards  $\text{S}_{\text{N}}1$  and why?

2. Write the product formed when p-nitrochlorobenzene is heated with aqueous NaOH at 443K followed by acidification.
3. Why dextro and laevo-rotatory isomers of Butan-2-ol are difficult to separate by fractional distillation?

Q8. Name the reagents which are used in the following conversions:

1. A primary alcohol to an aldehyde.
2. Butan-2-one to butan-2-ol.
3. Phenol to 2, 4, 6-tribromophenol.

Q9. What happens when:

1. Sodium phenoxide is treated with  $\text{CH}_3\text{Cl}$ ?
2.  $\text{CH}_2=\text{CH}-\text{CH}_2-\text{OH}$  is oxidised by PCC?
3. Phenol is treated with  $\text{CH}_3\text{COCl}$ /anhydrous  $\text{AlCl}_3$ ?

Write chemical equations in support of your answer.

Q10. 1. Name the reagents and write the chemical equations for the preparation of the following compounds by Williamson's synthesis:

1. Ethoxybenzene.

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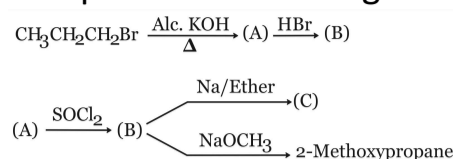


2. 2-Methyl-2-methoxypropane.

2. Why do phenols not give the protonation reaction readily?

**Q11.** Complete the following reactions:

**3 Marks**



**Q12.** Giving an example for each describe the following reactions:

**3 Marks**

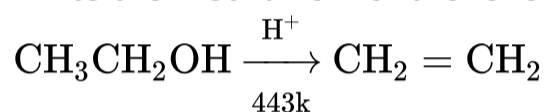
1. Hofmann's bromamide reaction.
2. Gatterman reaction.
3. A coupling reaction.

**Q13.** Compound (A) ( $\text{C}_6\text{H}_{12}\text{O}_2$ ) on reduction with  $\text{LiAlH}_4$  gives two compounds (B) and (C). The compound (B) on oxidation with PCC gives compound (D) which upon treatment with dilute  $\text{NaOH}$  and subsequent heating gives compound (E). Compound (E) on catalytic hydrogenation gives compound (C). The compound (D) is oxidized further to give compound (F) which is found to be a monobasic acid (Molecular weight = 60). Identify the compounds (A), (B), (C), (D), (E) and (F)

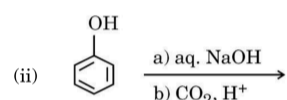
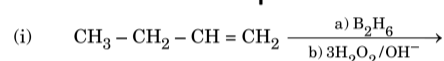
**3 Marks**

**Q14.** Write the mechanism of the following reaction:

**3 Marks**



Write the main product in each of the following reactions:



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**Q15.** Write the structures of main products when benzene diazonium chloride reacts with the following reagents:

**3 Marks**

1.  $\text{CuCN}$
2.  $\text{CH}_3\text{CH}_2\text{OH}$
3.  $\text{KI}$

**Q16.** How do you convert the following:

**3 Marks**

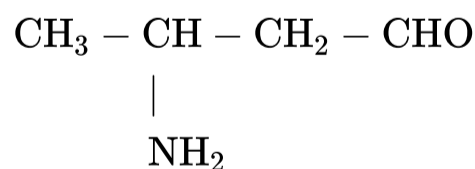
1. Phenol to picric acid
2. Propanone to 2-Methylpropan-2-ol
3. Phenol to anisole
4. Propene to Propan-1-ol

**Q17.** Although chlorine is an electron withdrawing group, yet it is ortho-, para-directing in electrophilic aromatic substitution reactions. Explain why it is so?

**3 Marks**

**Q18.** Write the IUPAC name of the compound

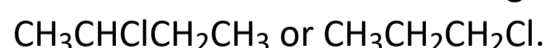
**3 Marks**



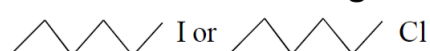
**Q19.** Answer the following questions:

**3 Marks**

1. What is meant by chirality of a compound? Give an example.
2. Which one of the following compounds is more easily hydrolyzed by  $\text{KOH}$  and why?



3. Which one undergoes  $\text{S}_\text{N}2$  substitution reaction faster and why?



**Q20.** What happens when:

1. Phenol reacts with Conc.  $\text{HNO}_3$ ?
2. Ethyl chloride reacts with  $\text{NaOC}_2\text{H}_5$ ?

Write the chemical equations involved in the above reactions.

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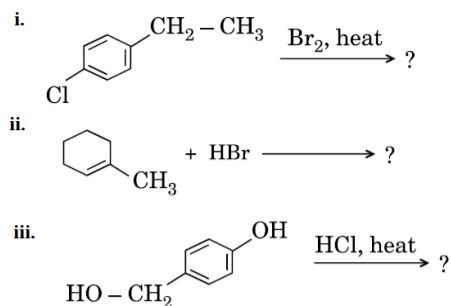
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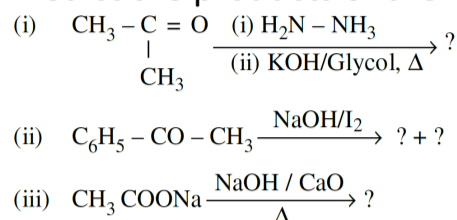
**Q21.** Draw the structures of the major mono-halo product for each of the following reactions:

3 Marks



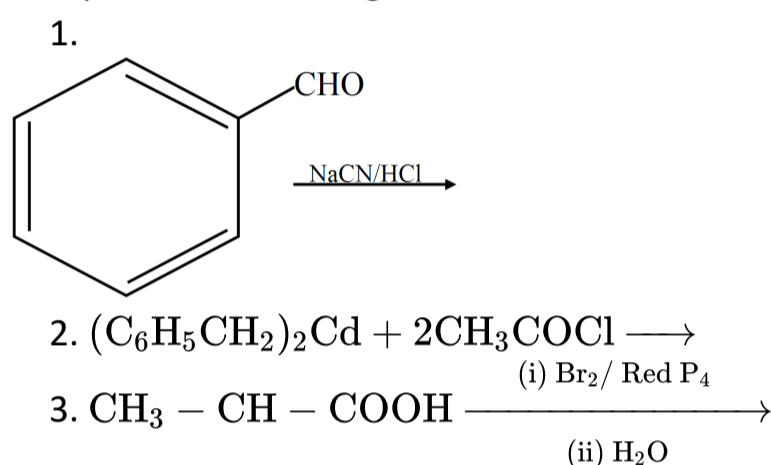
**Q22.** Predict the products of the following reactions:

3 Marks



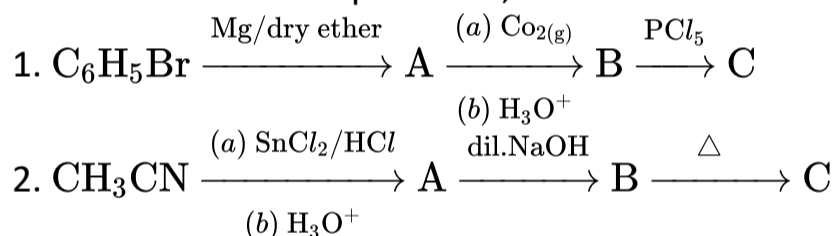
**Q23.** Complete the following reactions:

3 Marks

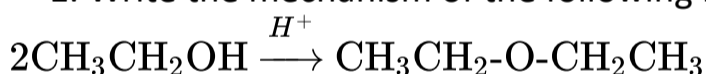


**Q24.** Write structures of compounds A, B and C in each of the following reactions:

3 Marks



**Q25.** 1. Write the mechanism of the following reaction:



2. Write the equation involved in the acetylation of Salicylic acid.

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