

CBSE Class 12 Chemistry Chapter 11 Alcohols, Phenols, and Ethers Worksheet – Set 1

Q1. Benzene diazonium chloride reacts with phenol in a weakly basic medium to give

- (a) p-hydroxy azo benzene
- (b) Chlorobenzene
- (c) Diphenyl ether
- (d) None of the above

Q2. Phenol reacts with the excess of bromine to yield

- (a) Meta Bromo phenol
- (b) Ortho and Para Bromo phenol
- (c) 2, 4, 6- tribromo phenol
- (d) None of the above

Q3. Dehydration of alcohol is an example of

- (a) Elimination reaction
- (b) Addition reaction
- (c) Substitution reaction
- (d) None of the above

Q4. Phenol is less acidic than

- (a) p-nitro phenol
- (b) acetic acid
- (c) Both (a) and (b)
- (d) None of the above

Q5. Lucas reagent is the mixture of

- (a) Concentrated Hydrochloric acid and anhydrous zinc chloride
- (b) Concentrated Nitric acid and anhydrous zinc chloride
- (c) Concentrated Hydrochloric acid and hydrous zinc chloride
- (d) Concentrated Nitric acid and hydrous zinc chloride

Q6. What happens when phenol is heated with zinc dust?

Q7. Write the IUPAC name of the below-mentioned compound.

Q8. Draw the structure of 1-phenyl propane-2-ol.

- Q9.** Convert ethanol to ethene.
- Q10.** Why does o-nitro phenol have a lower boiling point than p-nitro phenol?
- Q11.** Why is the C=O bond of phenol much shorter than the C=O bond of ethanol?
- Q12.** Name a test that can be used to distinguish 2-Pentanone from 3-Pentanone.
- Q13.** Convert phenol to acetophenone.
- Q14.** What is a reimer tiemann reaction?
- Q15.** Convert propene to propane-2-ol.
- Q16.** Convert phenol to 2, 4, 6-tribromo phenol.
- Q17.** What is Williamson's synthesis?
- Q18.** Why are ortho and para nitro phenols more acidic than phenol?
- Q19.** What is denatured alcohol?
- Q20.** Write a chemical test to distinguish between ethanol and ethanoic acid.