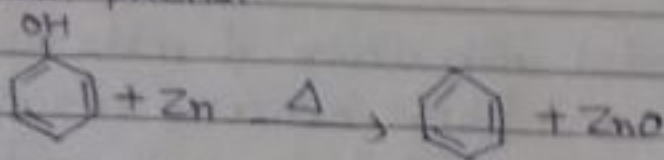


2) from phenol-

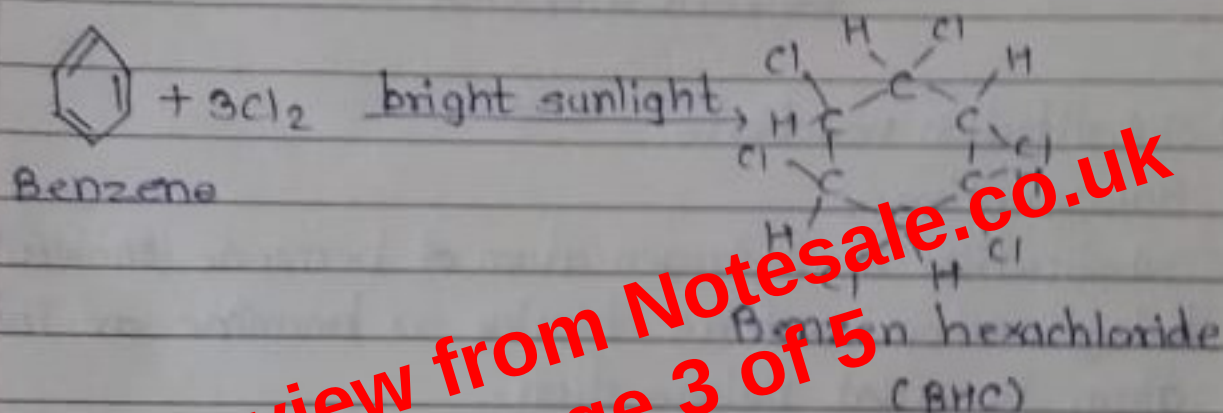


Chemical properties -

A) Addition reactions -

i) Addition of chlorine -

Benzene added reacts with chlorine in presence of bright sunlight or u.v. rays, adds up three molecules of chlorine to give benzene hexachloride ($C_6H_6Cl_6$).



ii) Addition of hydrogen -

On heating with hydrogen gas in presence of a catalyst like nickel at 453 K to 473 K, benzene adds up three molecule of hydrogen and forms cyclohexane (C_6H_{12}).

