

# ALCOHOLS PHENOLS & ETHERS <sup>1.</sup>

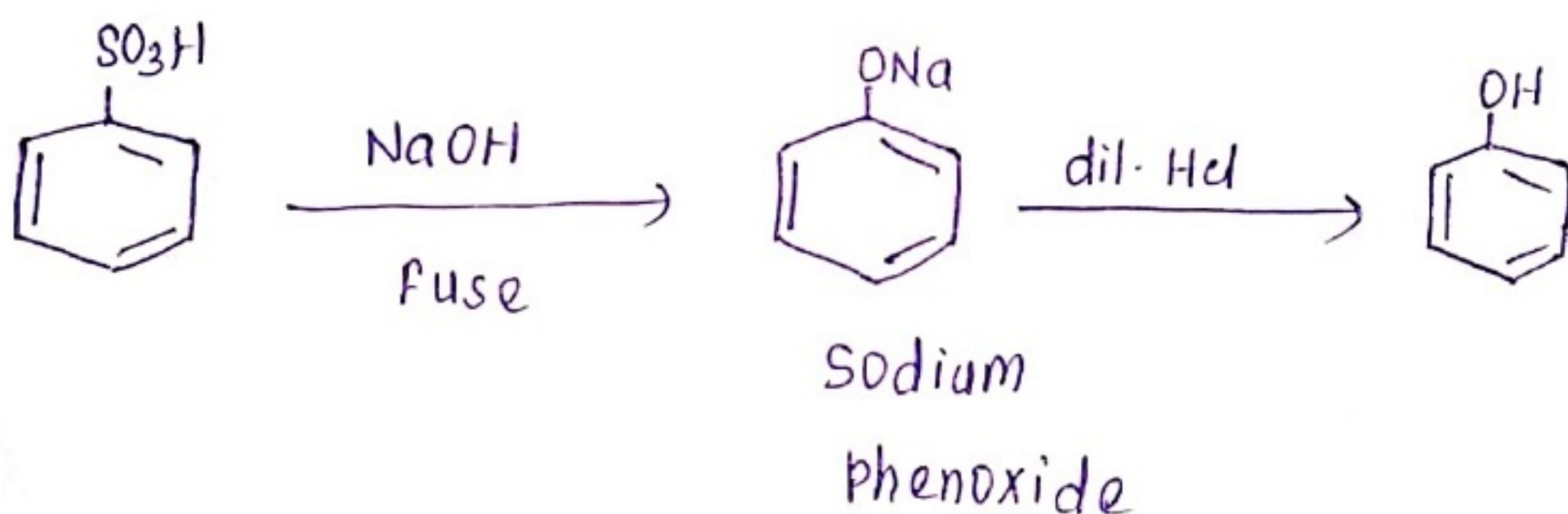
CHEMISTRY , CLASS-XII , UNIT-11

LECTURE-6 ,BY:-DR.RINKY ,30/09/2020

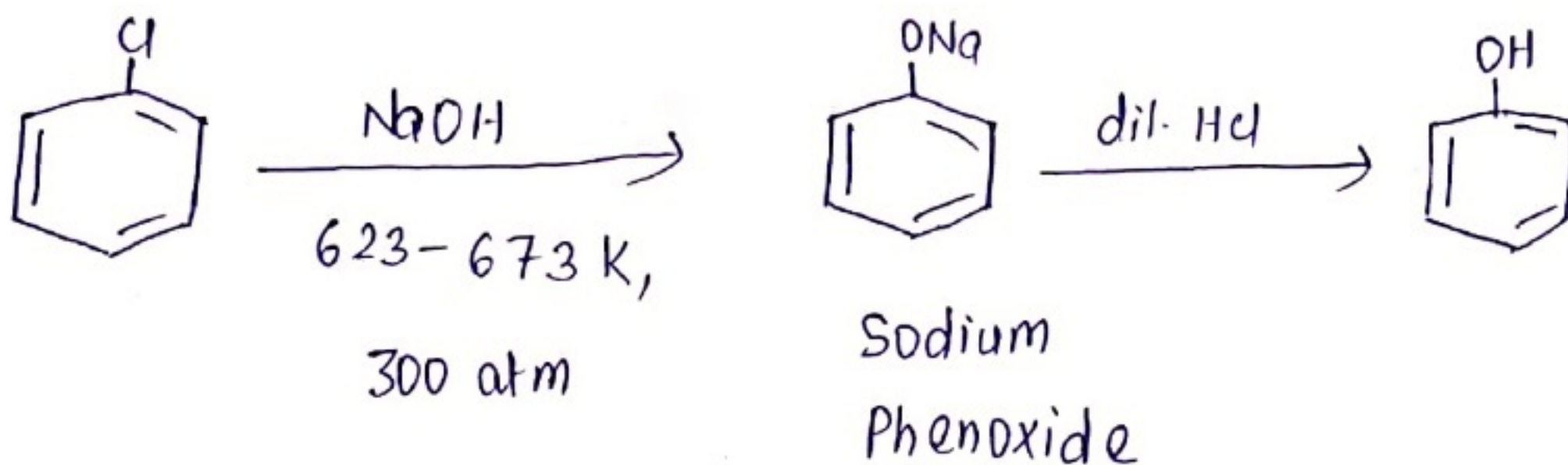
Topic :- General Methods of

## Preparation of Phenol

### 1. From benzene Sulphonic acid



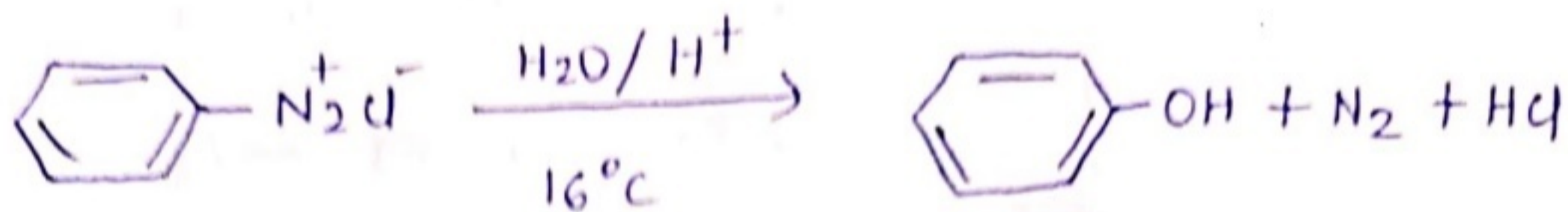
### 2. From Haloarenes (Dow's Process)



Dept. of Chemistry

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### 3. From Diazonium Salt

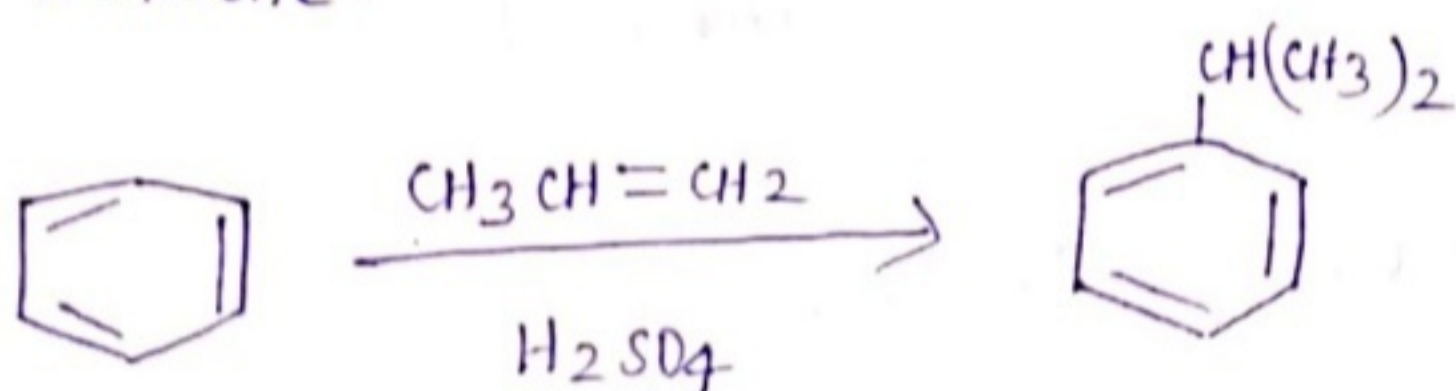


Benzene

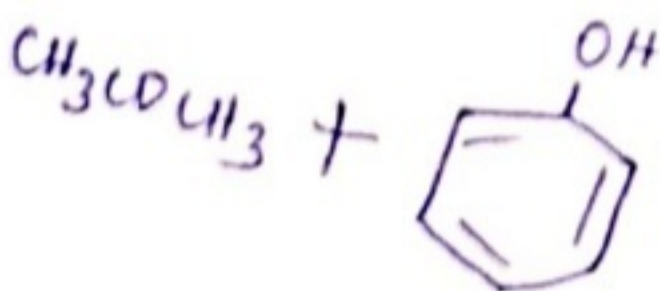
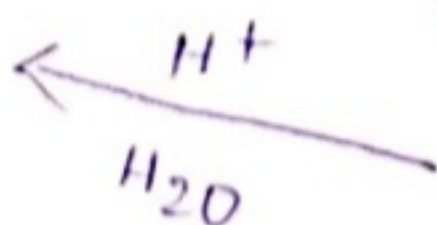
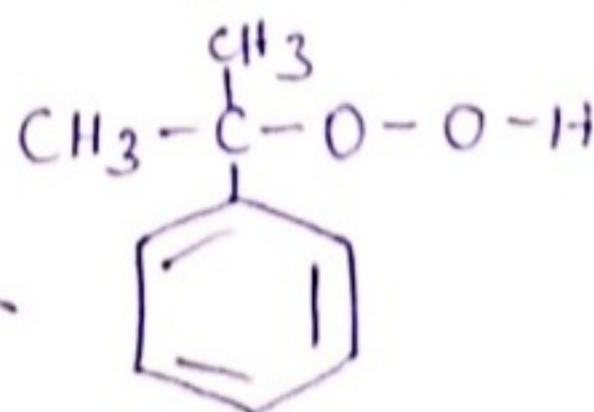
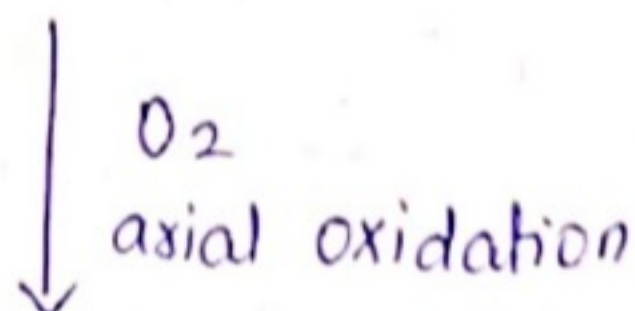
diazonium chloride

### 4. From Cumene

Phenol is prepared commercially from cumene, which itself is prepared by Friedel-Craft alkylation of benzene.



Cumene

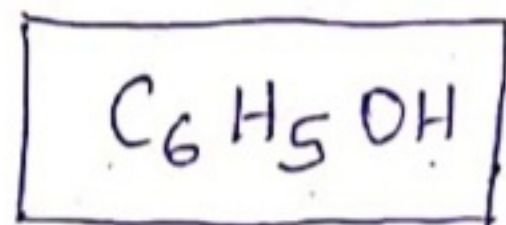
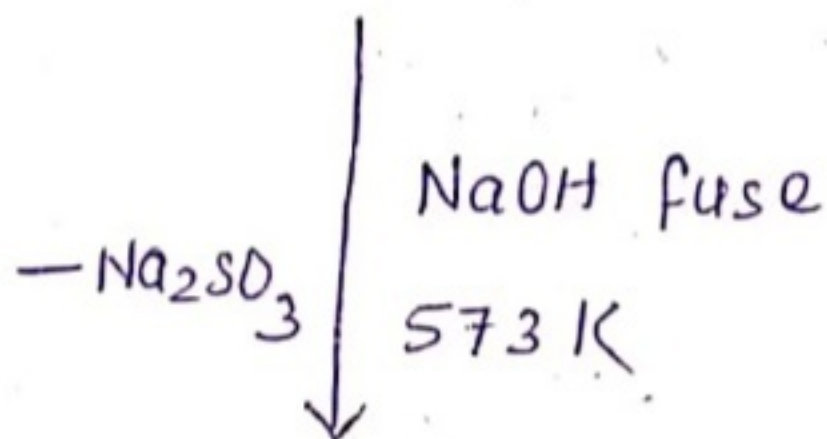
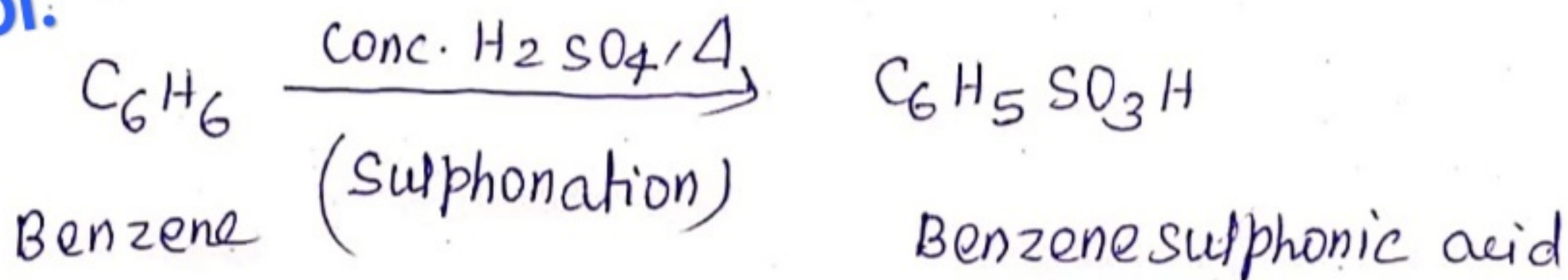




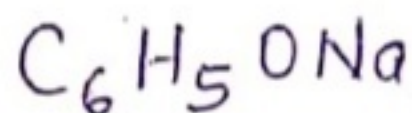
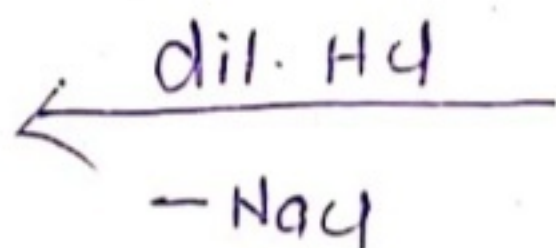
3.

Q. You are given benzene, conc.  $H_2SO_4$  and  $NaOH$ .  
Write the equations for the preparation of Phenol using these reagents.

**Sol.**



Phenol



Sod. Phenoxide

\* Sodium phenoxide on acidic hydrolysis gives Phenol.

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**To be continued in next..**