# SCH 2202 ORGANIC CHEMISTRY II

- ►JANUARY-APRIL 2024
- ▶JKUAT- DEPT OF CHEMISTRY

# BENZENE AND AROMATICITY

- Benzene (C<sub>e</sub>H<sub>n</sub>) is the simplest aromatic hydrocarbon (or arene).
- · Four degrees of unsaturation.
- It is planar.
- All C—C bond lengths are equal.
- Whereas unsaturated hydrocarbons such as alkenes, alkynes and dienes readily undergo addition reactions, benzene does not.

(an arene)

ZuHu. Dep

No reaction

 Benzene reacts with bromine only in the presence of FeBr<sub>3</sub> (a Lewis acid), and the reaction is a substitution, not an addition.

CaHa

Br<sub>2</sub> FeBr<sub>3</sub>

C<sub>e</sub>H<sub>e</sub>Br

substitution Br replaces H

#### STRUCTURE OF BENZENE

 The true structure of benzene is a resonance hybrid of the two Lewis structures.

The hybrid

as a hexagon with an inner circle:

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