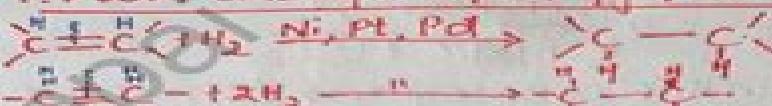


# HYDROCARBON

## # MOP of Alkane

### 1. From unsaturated hydrocarbons



OM  $\rightarrow$  π bond ke 4-4 se foot do.

# exothermic      # ROR: Alkyne  $>$  Alkene

# 4MCTs formed      # ROR  $\propto \frac{1}{S \cdot H}$

# Syn addition       $\propto$  stability

# Add<sup>o</sup> of conj. diene       $\text{CH}_2=\text{CH}-\text{CH}=\text{CH}_2 \rightarrow \text{C}_6\text{H}_6$

# R<sub>2</sub>Ni  $\rightarrow$  alloy of Ni & Al in NaOH  
Galvanic temp better than Ni (at 100°C)

# If R<sub>2</sub>Ni used  $\rightarrow$  Sabatier's Sanderson's

# If [Rh(PPh<sub>3</sub>)<sub>3</sub>Cl] used also

(Wilkinson's catalyst)

Alkene	Addition	Product
Cis	Syn	E <sub>2</sub> g <sub>1</sub> thao
Trans	Syn	T <sub>2g</sub> eo
Cis	Anti	T <sub>2g</sub> eo
Trans	Anti	E <sub>2</sub> g <sub>1</sub> thao

### 2. From alkyl halide



# X hafao  $\propto$  leagao.

# ROR: R-Cl  $<$  R-Br  $<$  R-I      # ROR  $\propto \frac{1}{BE}$

### 3. Wurtz reaction



produce higher alkane with even no. of C

# R-X  $\rightarrow$  coupling

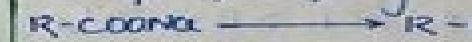
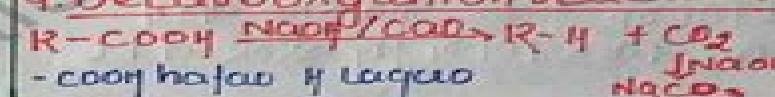
(1, 2<sup>o</sup>)      R-X  $\rightarrow$  disproportionation

(3<sup>o</sup>)      in 1<sup>o</sup> molecules Wurtz faster than in 2<sup>o</sup> molecules but prod should be stable i.e. A-A nahi banana hai.

# ROR  $\xrightarrow{\text{SH}} \text{R}-\text{X} > 2^{\circ} \text{RX} > 3^{\circ} \text{RX}$

# for same R: RF  $<$  RCl  $<$  RBr  $<$  RI

### 4. Decarboxylation reaction



# ROR  $\propto$  stability of intermediate (R<sup>-</sup>)

### 5. Kolbe's electrolysis



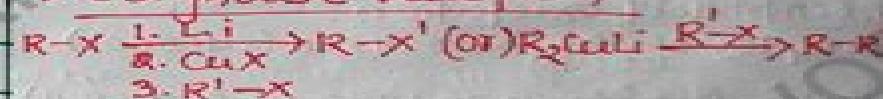
Cathode  $\rightarrow \text{H}_2$       Anode  $\rightarrow$  Alkane + CO<sub>2</sub>

### Addition Reaction

#### 6. Frankland reaction



#### 7. Cosyhouse reaction



# Attack of R<sup>-</sup>  $\rightarrow$  RDS

# ROR  $\propto \frac{1}{S \cdot H}$  of R'-X

# If same R:



BE  $\downarrow \rightarrow$  leaving tendency  $\uparrow$

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**Harold Hart, Robert D. Schuetz**

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