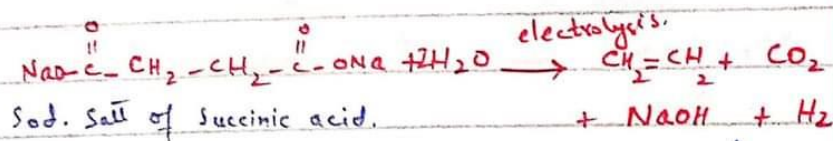
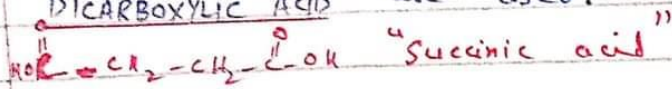


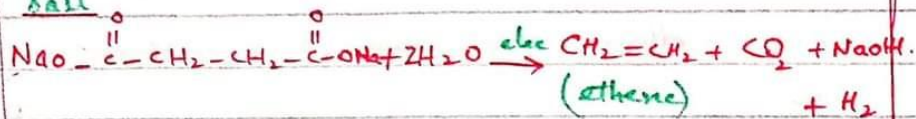
## "PREPERATION OF ALKENES" / "OLEFINS"

For preparation of alkenes salts of DICARBOXYLIC ACID are used.



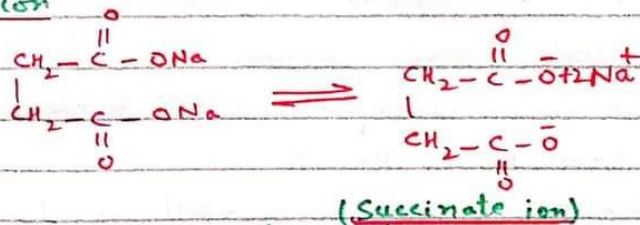
To prepare ethene by this reaction a dicarboxylic acid salt (succinic acid salt) is used.

Let's Prepare "Ethene" from "Succinic acid salt"



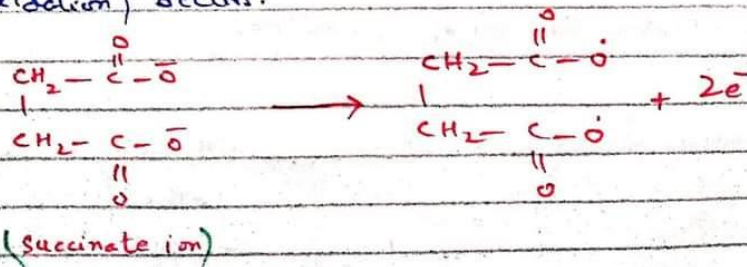
Mechanism:

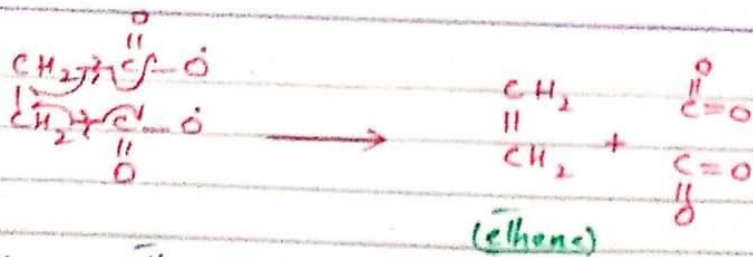
(1) Ionization



(2) Reaction at anode (oxidation)

Succinate ions (anions) move towards anode (Positive cathode). At anode removal of electrons (oxidation) occurs.





Here ethene & 2 CO<sub>2</sub> molecules are prepared/Produced.

### Reaction at Cathode (Reduction)

Na<sup>+</sup> ions move towards cathode (negative electrode). At cathode gains of electrons occur called reduction.



Then 2OH<sup>-</sup> combines with 2Na<sup>+</sup> and produce 2NaOH.



Complete Chemical Equation:

