

Organic Named Reaction

1.

Paper-VII Deg-III Hons. 02/02/2022

Michael Addition Reaction

By:-Dr.Rinky

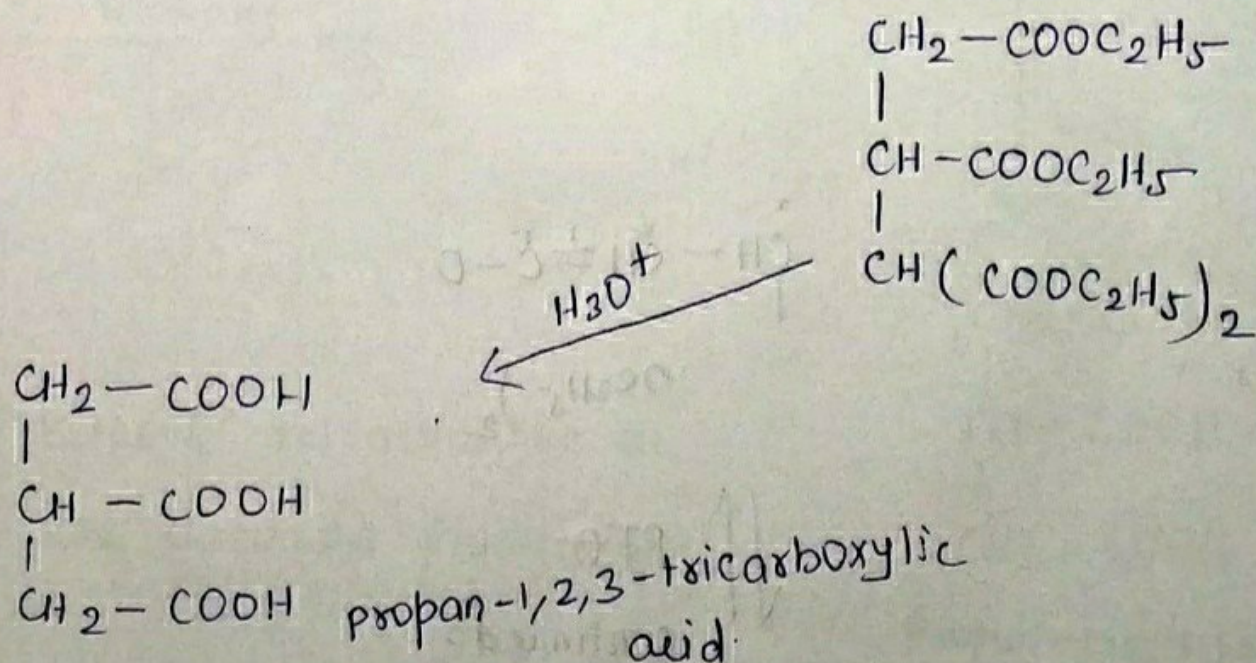
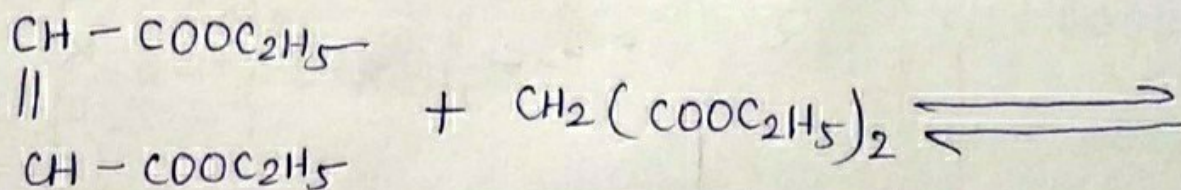
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2019-2022

Synthetic Application :-

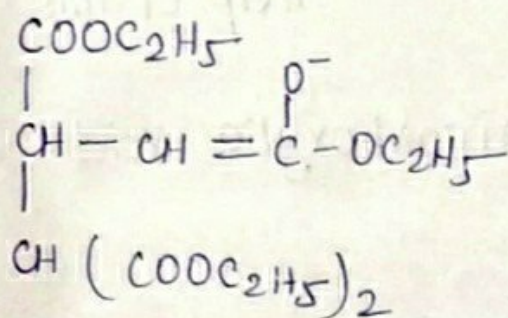
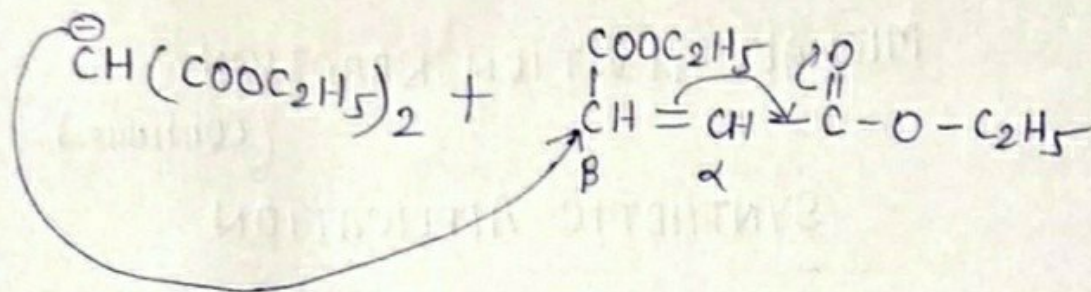
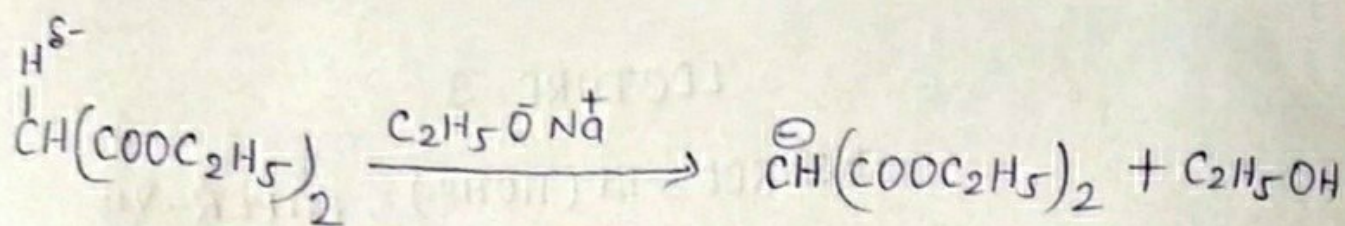
* The reaction is of great synthetic importance since a variety of organic compounds can be synthesized with the help of this reaction.

1. Synthesis of Tricarboxylic Acid

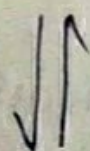
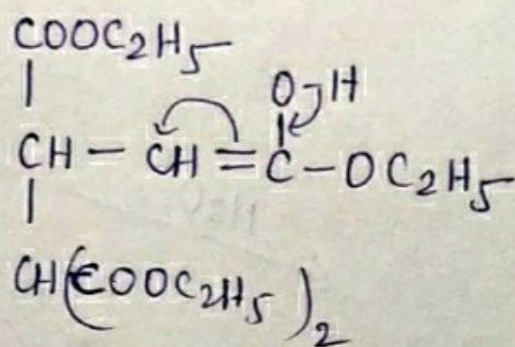


Mechanism

2.

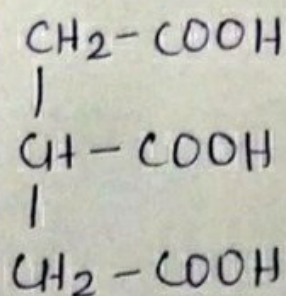
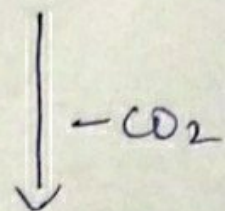
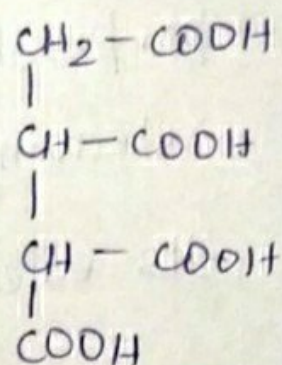
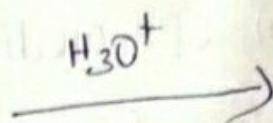
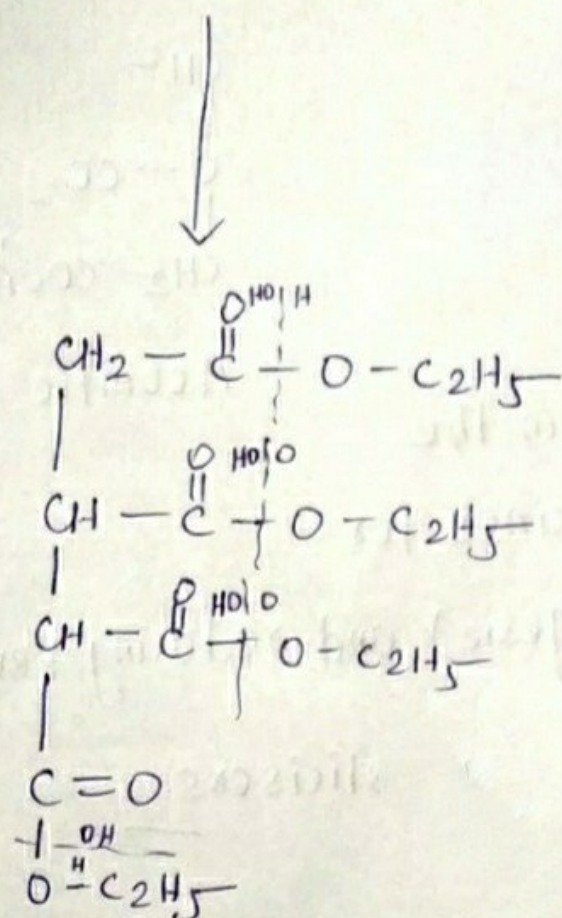
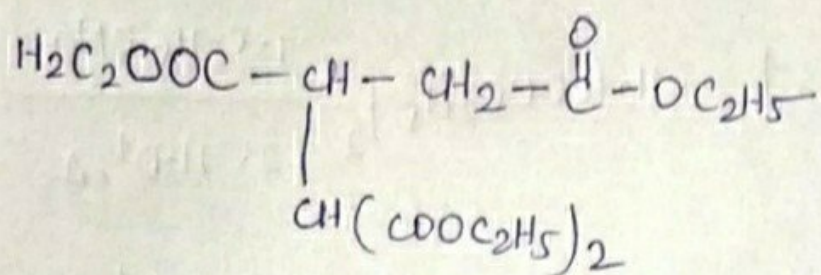


H^+ from $\text{C}_2\text{H}_5\text{OH}$



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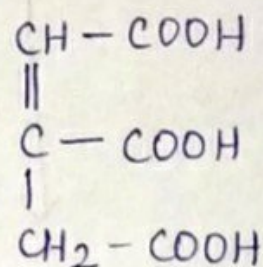
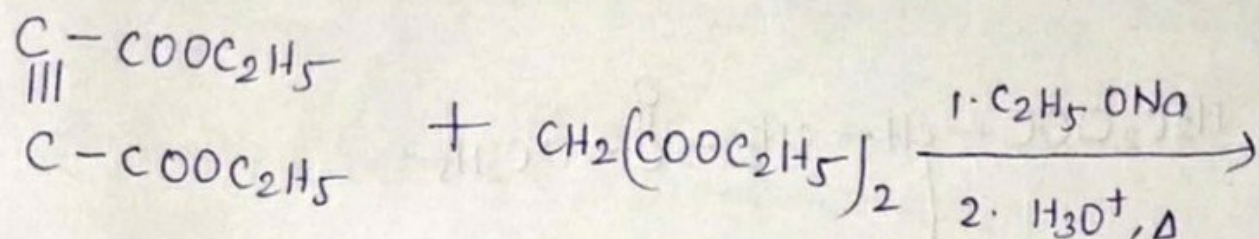
$\updownarrow$
 Tautomerise



* Esters of tricarboxylic acid
are used as plasticisers.

Propan-1,2,3-tricarboxylic acid.

2. Synthesis of Aconitic Acid



Aconitic acid

* Aconitic acid is used in the preparation of medicines for relieving pain (analgesic) and reducing fever. Its esters are used as plasticisers.

Continues..
