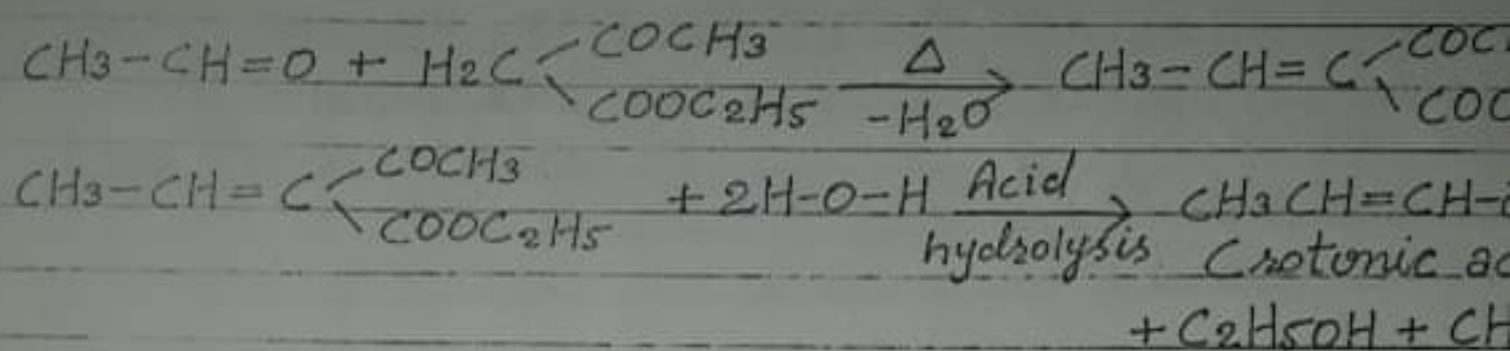


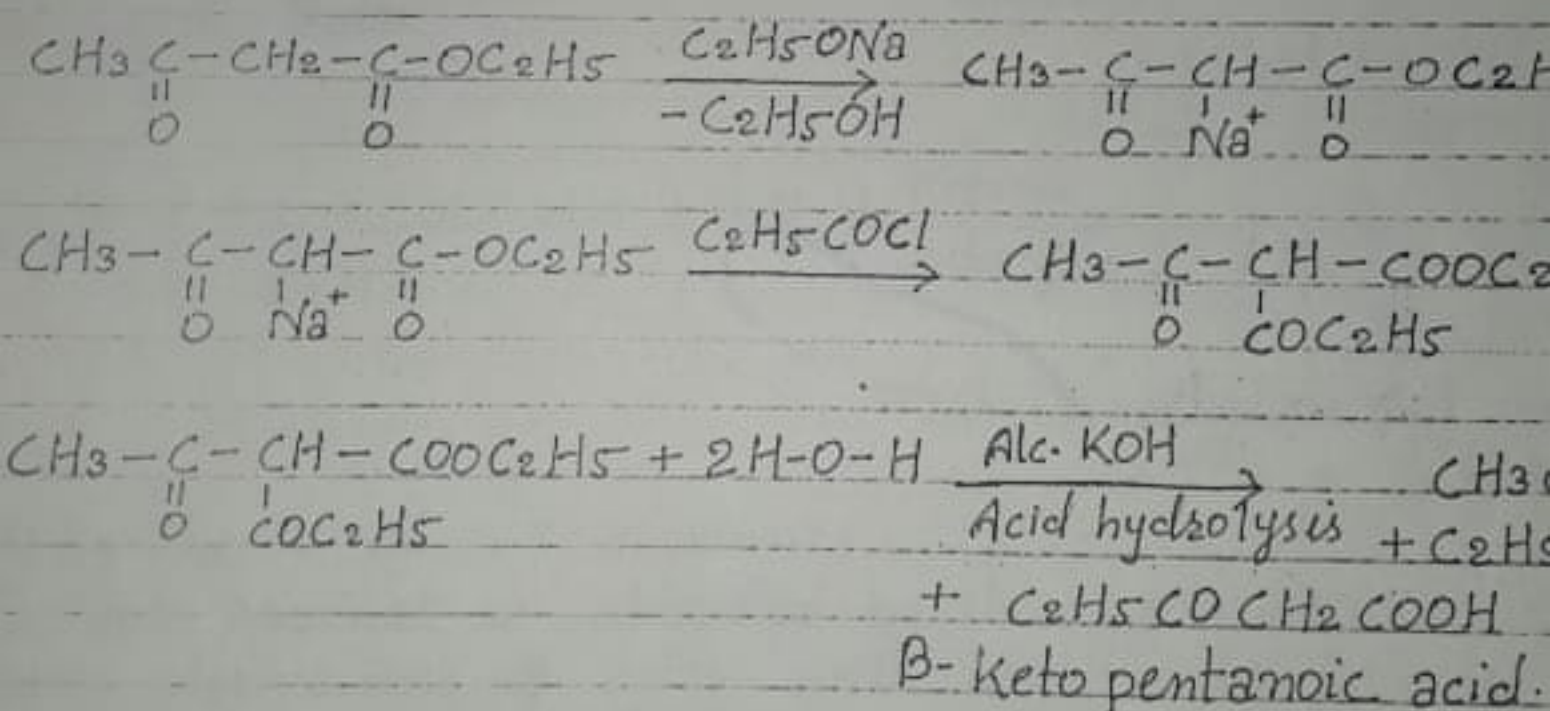
### (3) Synthesis of $\alpha, \beta$ -Unsaturated acids:

The product is obtained by the condensation of A.A.E. with an aldehyde or ketones gives an  $\alpha, \beta$ -unsaturated acid on acid hydrolysis.



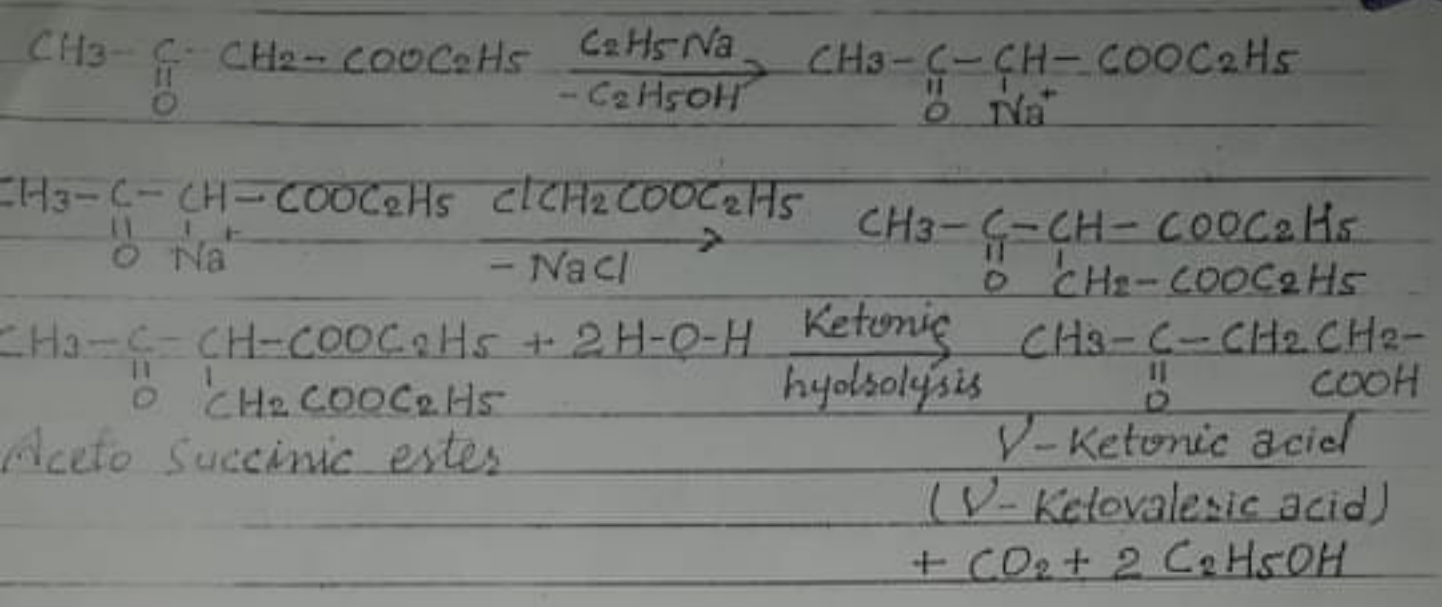
### (4) Synthesis of $\beta$ -ketonic acids:

The product is obtained by the condensation of sodio derivatives of ester with propionyl (Acyl halide). When subjected to acid hydrolysis forms  $\beta$ -ketonic acid.

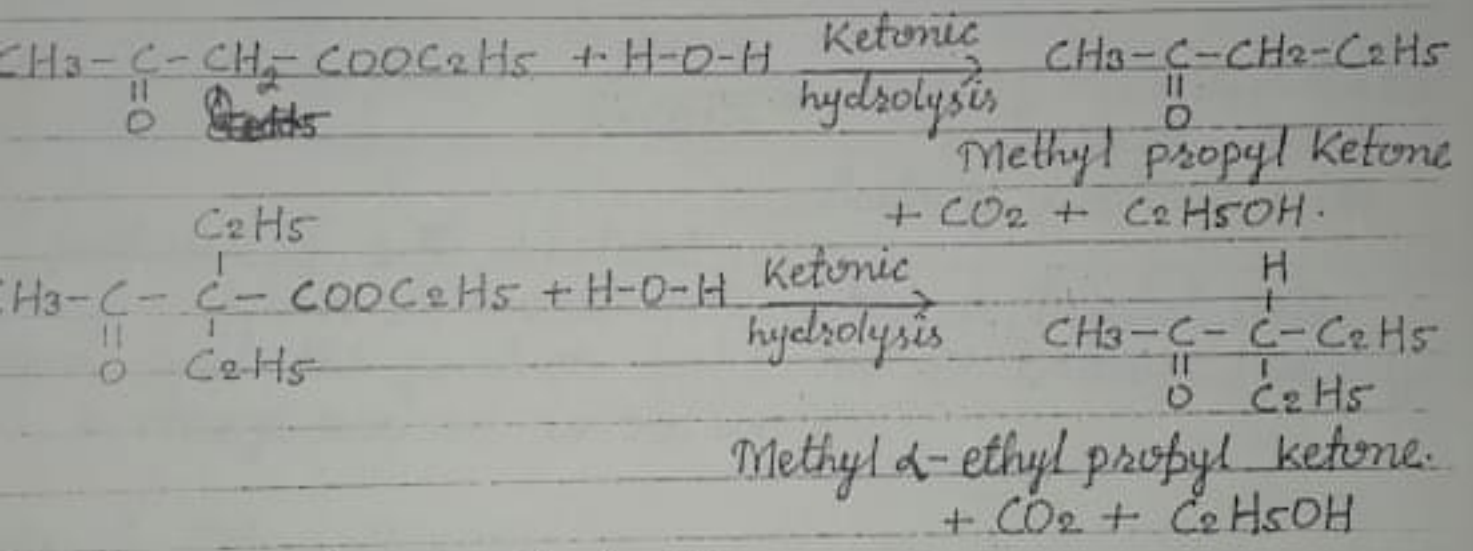


### Synthesis of $\gamma$ -ketonic acids:

$\gamma$ -ketonic acids are prepared by the reaction of sodio acetate with  $\alpha$ -chloro carbonyl compounds. The product aceto succinic ester gives  $\gamma$ -ketonic acid when subjected to ketonic hydrolysis.



Synthesis of Methyl Ketones:  
 Mono and dialkyl derivatives of A.A.E. on ketonic hydrolysis form higher methyl ketones.



Synthesis of 1,3-diketones:  
 The product is obtained by the condensation of dialkyl derivatives of ester with acyl halide forms 1,3-diketones on ketonic hydrolysis.

