

CHEM – 478

Organic synthesis



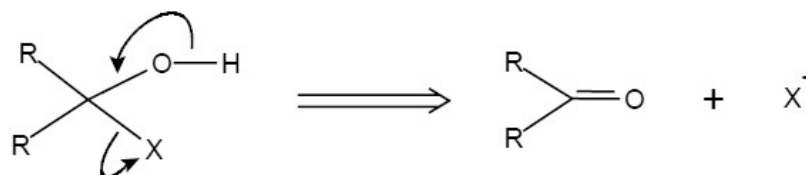
Dr. Humaira Yasmeen Gondal

Department of Chemistry

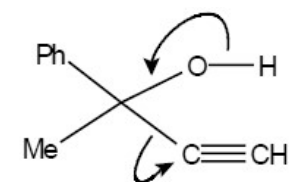
University of Sargodha



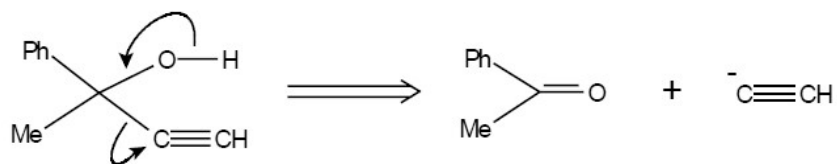
DISCONNECTIONS OF SIMPLE ALCOHOLS



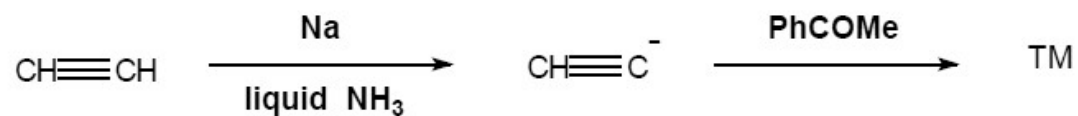
Target Molecule



Disconnection



Synthesis

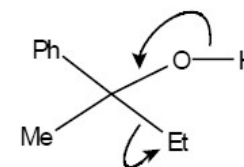




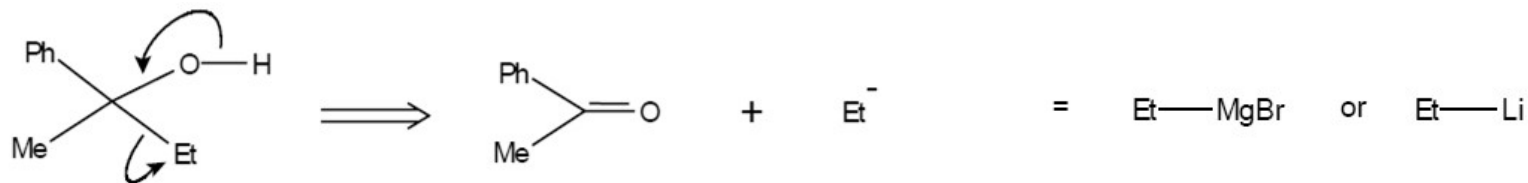
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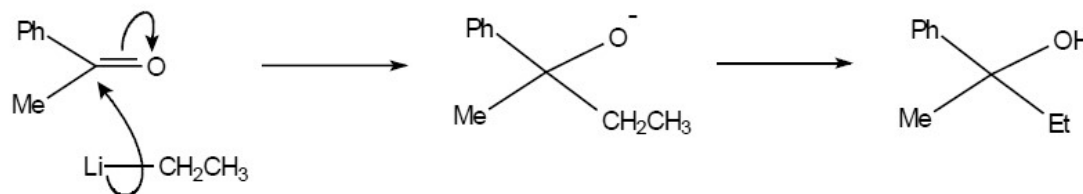
Target Molecule



Disconnection



Synthesis

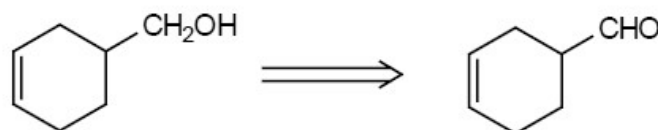




DISCONNECTIONS OF SIMPLE ALCOHOLS

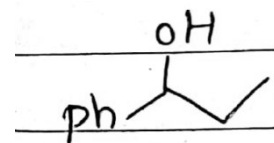


Reduction with NaBH₄ or LiAlH₄



Exercise

Attempt with all alkyl groups
one by one

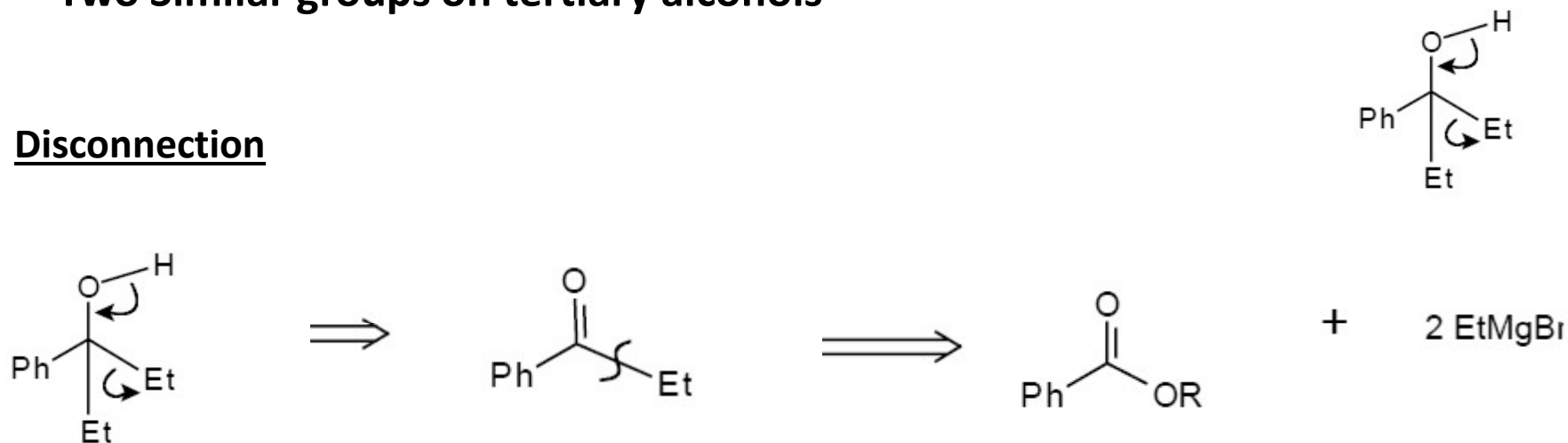




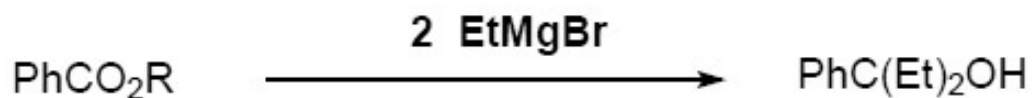
DISCONNECTIONS OF SIMPLE ALCOHOLS

Two Similar groups on tertiary alcohols

Disconnection



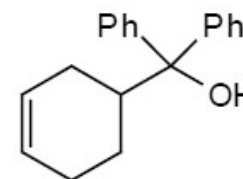
Synthesis



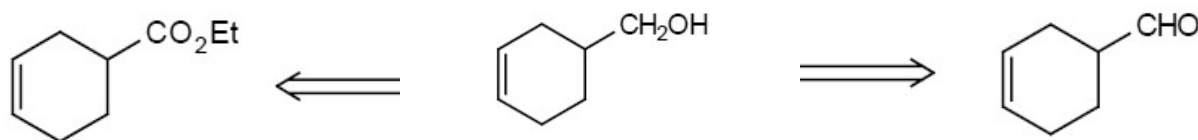
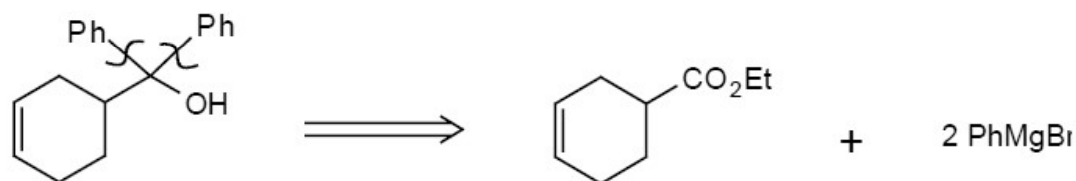


DISCONNECTIONS OF SIMPLE ALCOHOLS

Two Similar groups on tertiary alcohols



Disconnection





COMPOUNDS DERIVED FROM ALCOHOLS

Functional Group Interconversions or FGI

