CONCEPT: BAEYER-VILLIGER OXIDATION

Peroxyacids (RCO₃H) have the ability to convert ketones into ______ and aldehydes into _____.

- •This oxidation is *regioselective* based on the **migratory aptitude** of the groups attached to the carbonyl carbon
 - □The migratory aptitude follows the cation stability trend: H > 3°C > 2°C > aryl > 1°C

General Reaction:

• Stereochemistry of migrating group is retained

Mechanism:

PRACTICE: Predict the major product of the following reaction

PRACTICE: Show the mechanism and predict the product for the following reaction

PRACTICE: Determine the major product for the following reaction.



<u>PRACTICE:</u> Provide the necessary reagents for the following transformation.