CONCEPT: NUCLEOPHILIC ADDITION OF SOLVENTS

These are reactions that are induced primarily by the extraordinary reactivity at the carbonyl carbon

- The carbonyl carbon is so reactive that it even reacts with some __________
- Most of these mechanisms are acid-catalyzed all are fully reversible in mild acid (H₃O⁺).
 - □ **Protonation** is always the first step, **deprotonation** is always the last (restores the catalyst)

