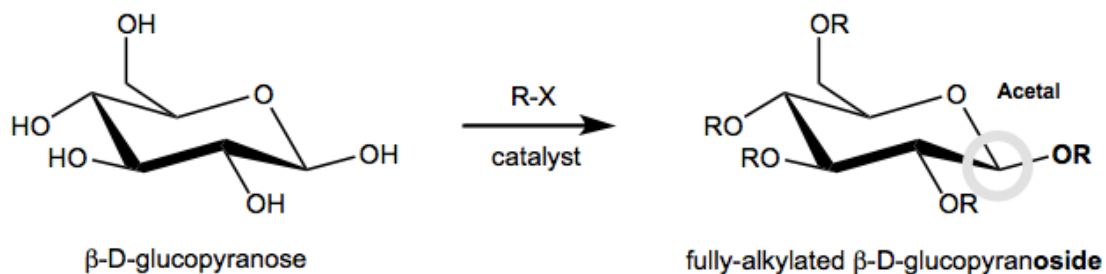


CONCEPT: MONOSACCHARIDES – ALKYLATION

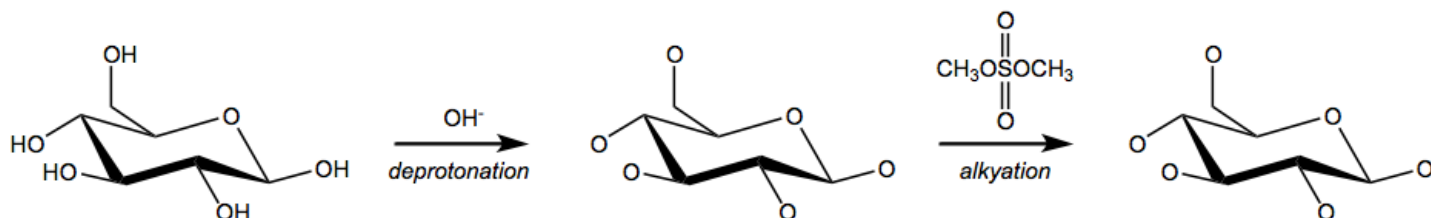
Monosaccharides have the ability to react at the –O position in several different ways.

- The simplest of these is called **exhaustive alkylation** to form 4 _____ and an _____
 - Reactions resemble **Williamson Ether Synthesis**, and utilize similar reagents
 - Potential alkylation reagents include 1. RX / base 2. ROSO₃R / base or 3. RX / Ag₂O

General Reaction: _____



Base-Promoted Mechanism:



Silver-Oxide Catalyzed Mechanism:

