## Quiz 23

1. 


2.


1. $\mathrm{HOCH}_{2} \mathrm{CH}_{2} \mathrm{OH} / \mathrm{H}^{+}$
2. $\mathrm{H}_{3} \mathrm{O}^{+}$
3. $\mathrm{Zn}(\mathrm{Hg}) / \mathrm{HCl}, \mathrm{H}_{2} \mathrm{O}$
4. 


4.

5. Provide a mechanism for the following transformation:


