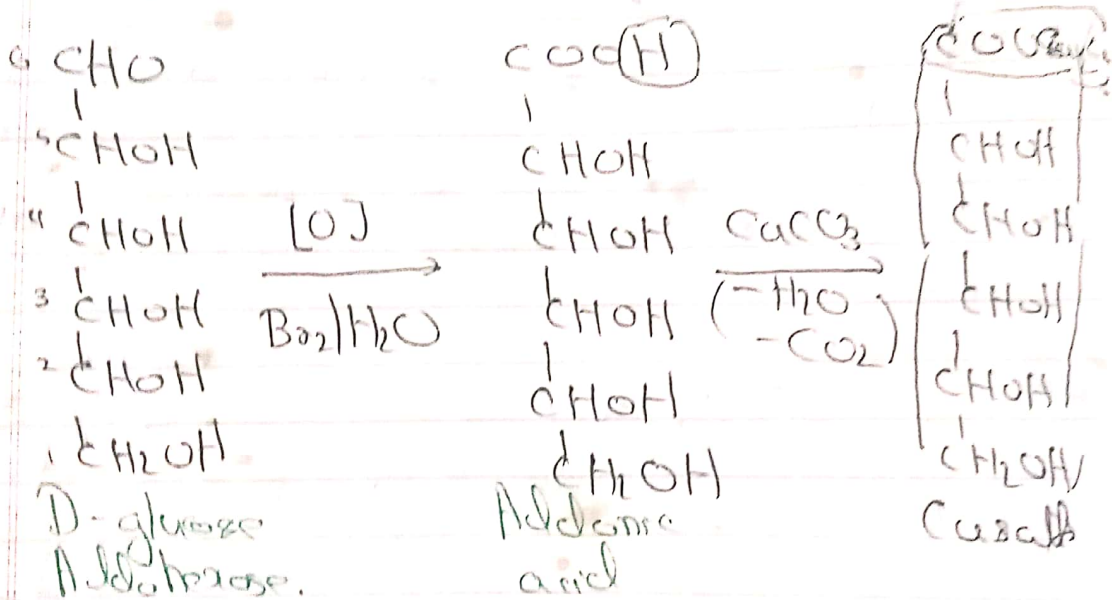


(Chain shortening of aldose)
Conversion of an aldose into next
lower aldose.

1mk Ruff degradation:

1. It involves following steps:
- a) Oxidation of aldose to aldonic acid by bromine water.
2. Reaction of aldonic acid with CaCO_3 forming Ca salt.
3. Oxidation of Ca salt into lower aldose by Fenton's reagent. (H_2O_2 and Ferric sulphate).



$\text{COO Ca}^{1/2}$

