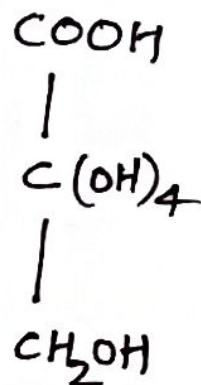
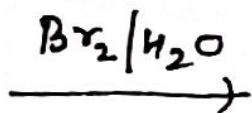
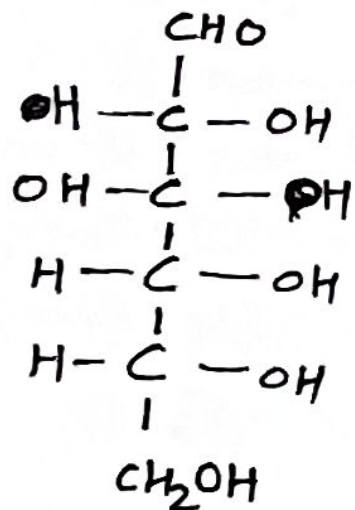


\* In the reaction  $\text{Glucose} \xrightarrow{\text{Br}_2/\text{H}_2\text{O}} \text{A}$ , Total number of optical isomers of A is  $x$ , find  $5x$ .

Sol<sup>n</sup>. glucose forms gluconic acid on reaction with bromine water.



(gluconic Acid)

There are four chiral carbons in gluconic acid.

$$\therefore x = 2^4 = 16$$

$$\therefore \boxed{5x = 80}$$