For 'invert sugar', the correct statement(s) is(are)
(Given: specific rotations of (+)-sucrose, (+)-maltose, L-(–)-glucose and L-(+)-fructose in aqueous solution are +66°, +140°, –52° and +92°, respectively)
(A) 'invert sugar' is prepared by acid catalyzed hydrolysis of maltose
(B) 'invert sugar' is an equimolar mixture of D-(+)-glucose and D-(–)-fructose
(C) specific rotation of 'invert sugar' is –20°
(D) on reaction with Br_2 water, 'invert sugar' forms saccharic acid as one of the products

Soln. Invert sugar is the equimolar mixture of D-(+)-glucose and D-(-)-fructose prepared by the hydrolysis of sucrose in acidic medium. So, (A) is incorrect and (B) is correct.

$$C_{12}H_{22}O_{11} + H_2O \xrightarrow{H^+} \underset{\substack{D-(+)-glucose \\ +52^0}}{C_6H_{12}O_6} + \underset{\substack{D-(-)-fructose \\ -92^0}}{C_6H_{12}O_6}$$

$$\alpha_{\text{invert sugar}} = \frac{+52^0 - 92^0}{2} = -20^0 \text{ (average is taken as both monomers are one mole each)}$$

Reaction with Br_2 water forms gluconic acid not glucaric (saccharic) acid. Thus (D) is incorrect.

So the correct options are B and C.