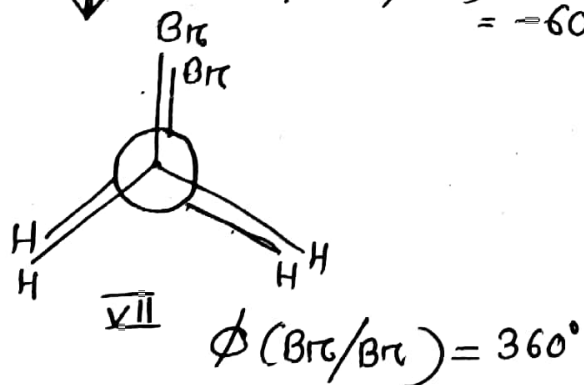
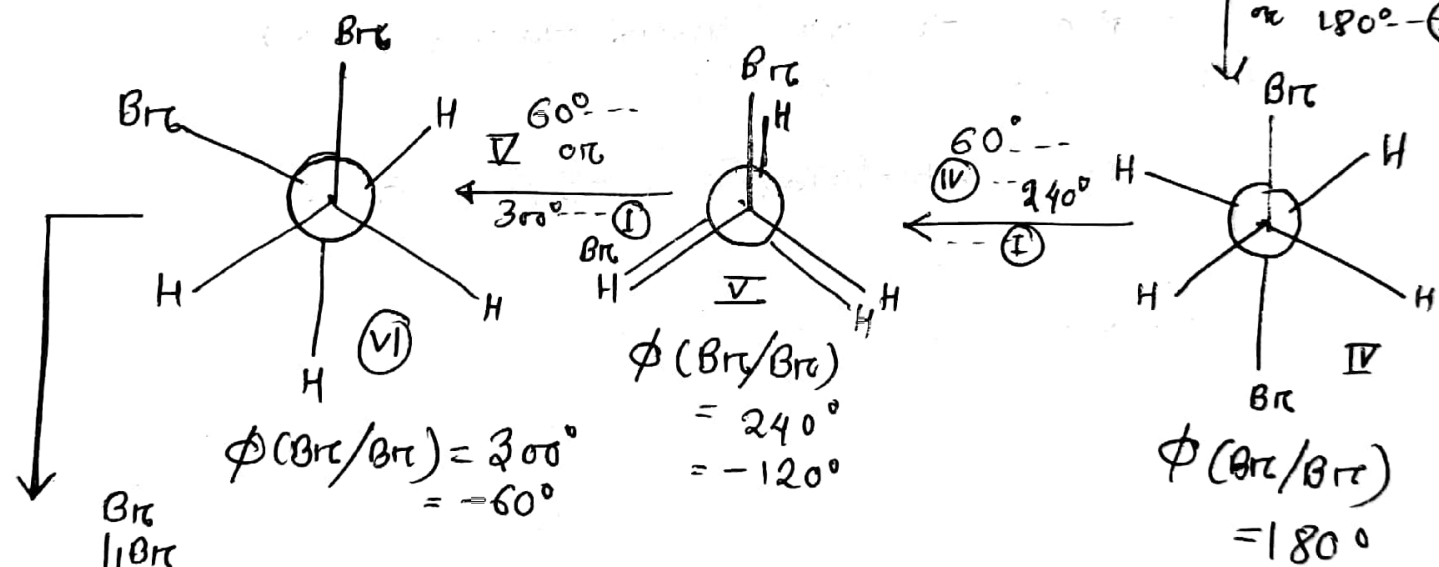
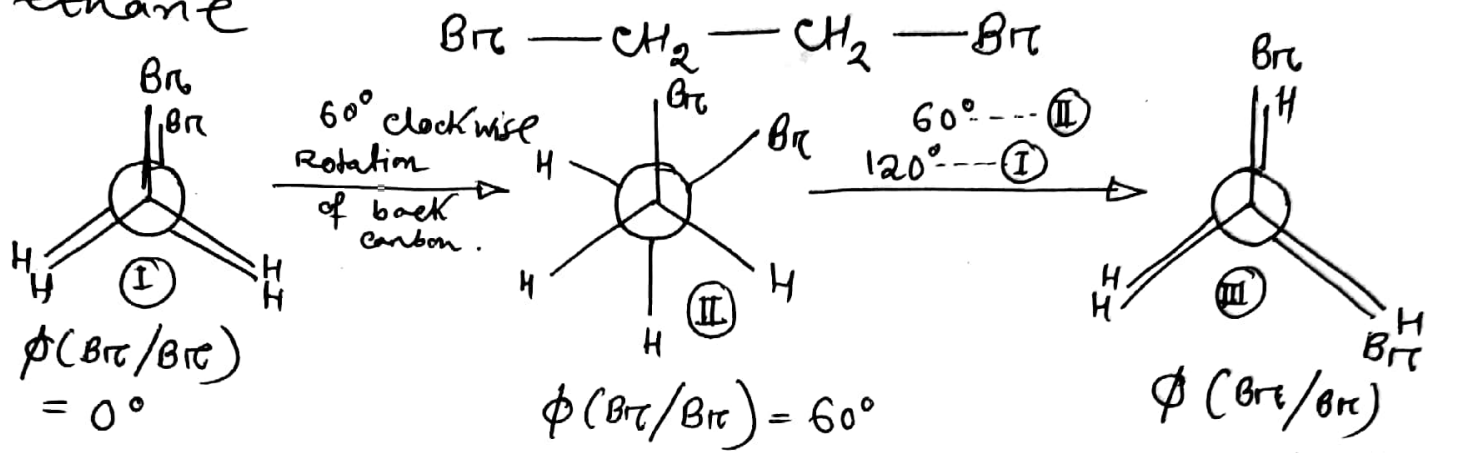


Conformation

class - 6

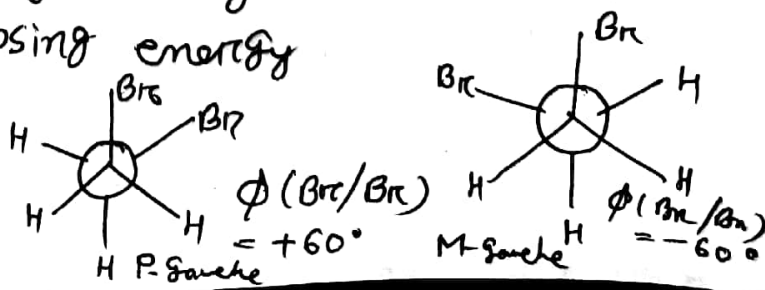
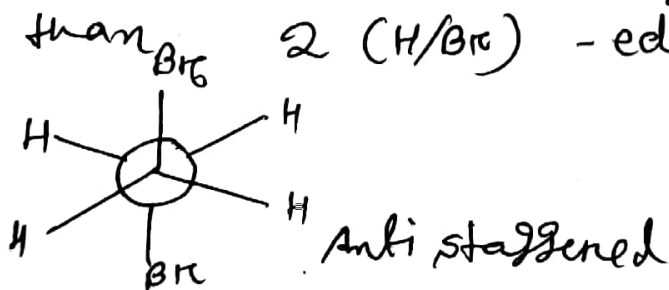
Conformational analysis of 1,2-dibromoethane



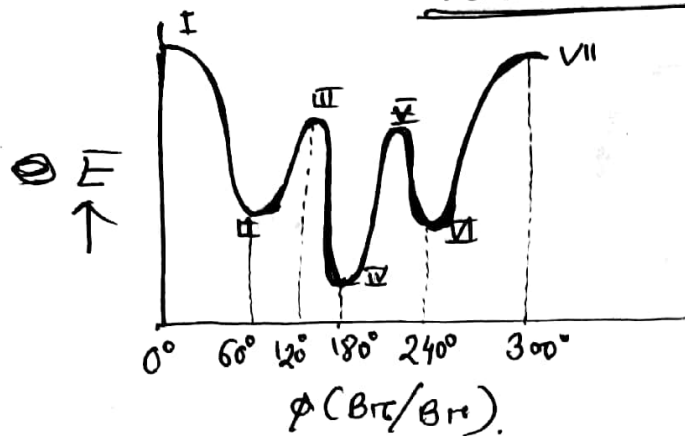
Energy order.

$$I, VII > III, V > II, VI > IV$$

Br/Br steric and electronic eclipsing energy much greater than $2 (\text{H}/\text{Br})$ - eclipsing energy



Torsional curve



But the torsional curve of ethylene glycol or 1,2-chloroethane will be different

from the above diagram. Because of H-bond formation between OH/OH or Cl/OH. the gauche (both P/M) will be more stabilised over anti staggered.

