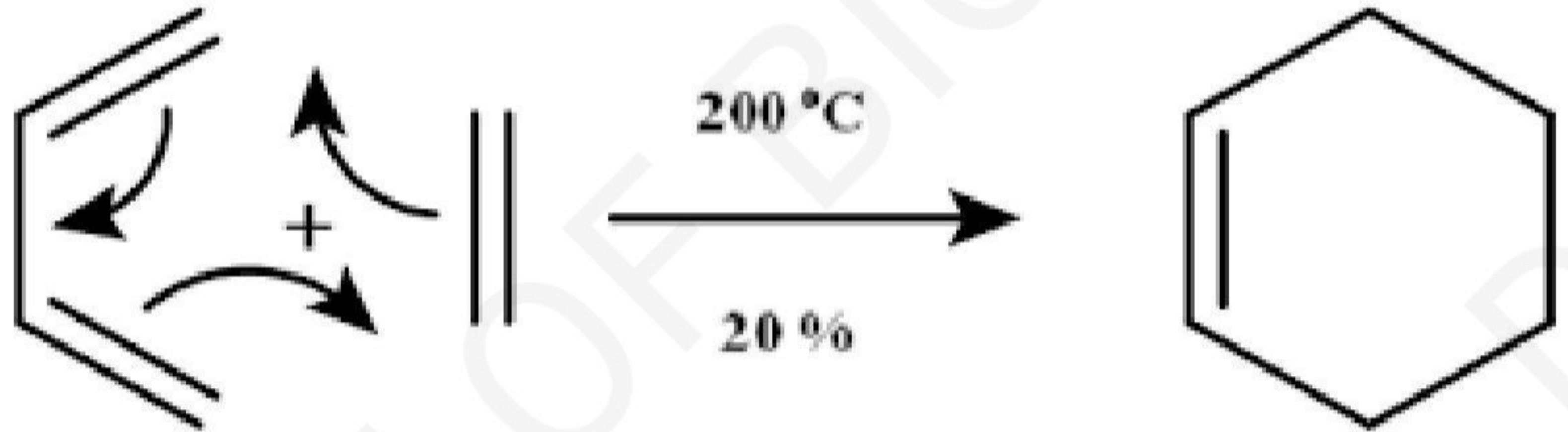


DIEL ALDER

[DEPTH OF BIOLOGY]

- The reaction between a conjugated diene and an alkene & alkyne

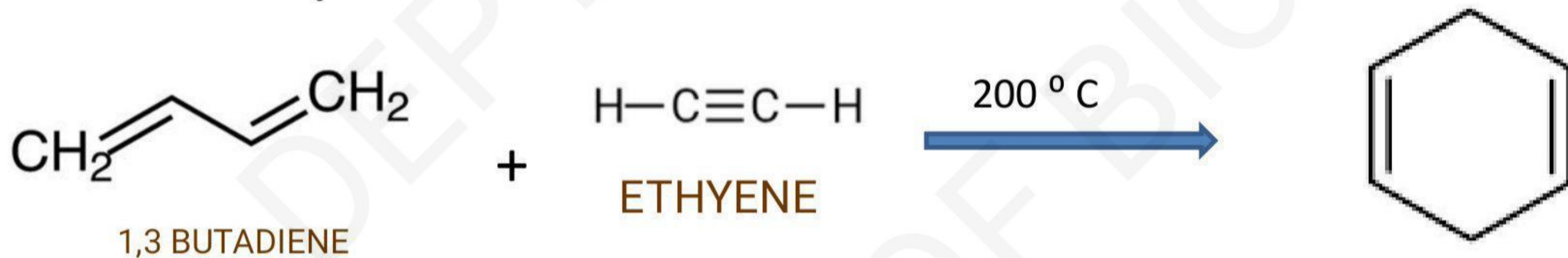


1,3 butadiene
+ ethene

cyclic

[DEPTH OF BIOLOGY]

- It is a type of cyclo addition reaction
- It is a type of (4+2) of cyclo addition reaction
- It is a single step mechanism
- No catalyst is needed



The net result is the formation of 2 new σ bonds and 1 π bond & breaking of 3 π bonds (original)

MECHANISM

Eg= 1,3 butadiene + malic anhydride gives pthalic anhydride

[DEPTH OF BIOLOGY]

