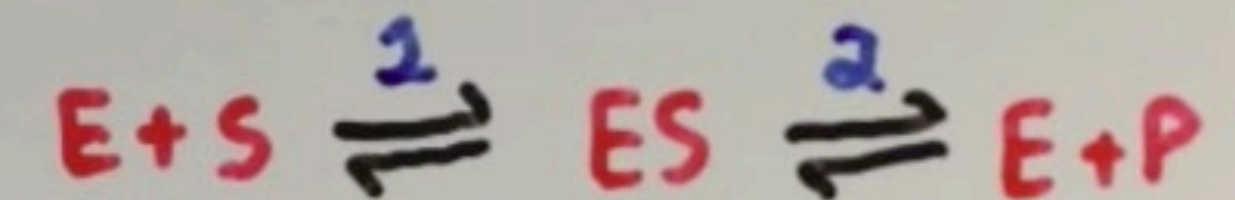


### SOME ASSUMPTIONS WE'VE MADE

1. OUR SOLUTIONS ARE BEHAVING IDEALLY



$$\text{RATE}_1 = k_1 [E][S] \quad \text{RATE}_2 = k_2 [ES]$$

2. OUR CONSTANTS ARE INDEED CONSTANT

$[E] \rightarrow$  PROTEIN SYNTHESIS/DEGRADATION

$k \rightarrow$  ENVIRONMENTAL FACTORS

3.  $S \rightarrow P$  WITHOUT ENZYME IS NEGLIGIBLE