Name:

-Acid/Base

Indicate the mode or modes of catalysis represented by electron-pushing and resonance arrows shown in each figure for the lysozyme mechanism below.

-Electrostatic

Preferential binding of the transition state

-Metal

-Covalent

-Proximity and orientation effects  $CH_2$ CH<sub>2</sub> Glu35 HOCH<sub>2</sub> HOCH2 0 н н D E H Ĥ OH H OR' Η H Ĥ Ŕ  $CH_2$  Asp52 $\dot{C}H_2$ CH<sub>2</sub> Glu35 HOCH2 HOCH<sub>2</sub> C C Η H H -H OR' OR' H H Ĥ Ŕ Ĥ Ŕ 0  $\rm CH_2$  Asp52  $\dot{C}H_2$  $\rm CH_2\,Glu35$ 0  $HOCH_2$ H H H н Η OR' H Ĥ R  $\rm CH_2$  Asp52