St. Explain the influence of ionic strength ON the roate constant for each of ten following reaction.

2. Pt (N+13)2 C12 + OH-

Answer: According to Bröwsted-Bjernum equation, for a second order reaction of type AZA + BZB = XZA+ZB > P,

the effect of loovic storength in the roate command of a reaction is given by

logk = logko +1.018 ZAZBVI for aqueous solution at 25°C.

Here k and ko are the voate constants in the presence and absence of salt respectively.

Za and ZB are the charges of the reactorness A and B respectively and I is the ionic strength of the solution.

De Ton tue fight care, the reactants we of same charges and hence roate of the reaction increases with increase in ionic Horensth of the solution.

Answer the second question.