6/05/2024

CHM 213

[PRACTICAL CHEMISTRY]

Lecture T: Mrs Emeribe oluchi

Topics. \* Activative Energy. A Arrhenius Equations & its Application : A Elementary Treatment of Fast Ranand theories of Ran of Introduction to Catalysis. - Homogeneous & Heterogeneous Catalysis. oblooms themical kinetics. [Theories of Ran Pote Energy of a Substance in motion. decresse while the rate of The rate of the reactant girt increase. duct of rate of rxn=d[B] where dis mitity documally small. I infinity ] Order of Roch. to order from if the Conc- of the reactant does not arrest the First oder Roch. Second order Rxn. The two molecules of involved. Satale Bon : The yore molad so the non by they are in offers.

A For molecule to heart all molecules need to be breakdown. According to the Collesson theory for non to take place the molecules are always collesson together with renough timely energy higher than the activation energy? Secondary the orderate of the reactant must collide with the right arentations. Tetrestive colision.]. (A) -> = (A) read the A and B to read B to goe ETTECTIVE ON BYON? @ FEFFE due collision] e.g # the preentation is notal collowing zig-zigolly.

(A) (B) (B) will give ineffective/follow. Theories of Roca Rate. 1) Collision theory of Rixin Pater tell is that the chm. Azn-take place only by Collision bectween the ring particle. Involcated but not all collision are effective only a small fraction of Collision produce a roch.

Two main condition for effective Collision.

1. The Collegena molecule must processes Sittigues 2. The Collaing moderale must collide with proper orientation freight partiel Roch Progress to Occur of Teapile Satterchent tinetic collodery with f. I greater parte ab ort an direct contact potencion the atom The isto of elementary process terest energy to read,

P= Probable Fraction of allerion with offerine attention Z= Collecton Frequency, 1. The theory is only apply to simple gaseous is any.