Reversible Reactions By Dackify CAhmed Afzal Reversible reactions are reactions which occur in two directions Forward & Backward! We only consider forward direction in a reversible reaction because our required product present only in Forward direction! In reversible reactions, 100% product do not produce because some products are converted back into reactant! 2F a reversible reaction is Easthernic in one direction it will be Endothermic in other direction ! In Exothermic reversible reaction Temperature will be decreased to Favor Maximum Yield! Stage in a reversible reaction when rate of Forward reaction is equal to rate of Backward reaction is Called: "Chemical Equilibrium" An Equilibrium in which particles constantly move in opposite direction is called "Oynamic Equilibrium" Hence, All Chemical equilibriums are Ognamic equilibriums!



Concentration : Increase the concentration of reactants - Remove the Products! This will shift the equilibrium in Forward direction, hence Yield of products increases! ii) Temperature : Forward 1 I A + Heat Endo B Heat II A Exo B+ Heat Heat Backword! In Exothermic reversible reactions, temperature is decreased to increase the yield of product or to Shift equilibrium in Forward direction The Endothermic reversible reaction temperature is increased for maximum Product or to shift equilibrium in Forward direction In Exothermic reversible reactions increasing temperature will facilitate the backword reaction while in endothermic reversible reactions in creasing temperature will facilitate Forward reaction emp should not be less than optimum otherwise rate of reaction,



> Jertilizers >



Amonium

Fertilizer

NHYNOZ Nihrogen Phosphorus Pottasium (NHY)2 POY KNO3!

A) CaO/Ca(OH) => to reduce acidity of soil!

Armonium Fertilizer + Lime

 $NH_{4}^{+} + OH^{-} \rightarrow H_{a}O + NH_{3} c_{9}$

•) A farmer should not use both Ammonium Fertilizer and lime at a time otherwise Ammonia (NH3) Gas will Procluce, hence Nitrogen contents decrease in soil

KNO3 is better Fertilizer as it does not reach with dime !





