4) E2 > Birrdecular Elimination Here, Flimination - kicking out B-hydrogen & Lg (leaving group) Bimolecular = geaction takesplace two molecules at a time Medanisms () x by anion is formed Here, The base attacks molecule directly at B-of position Therefore, its a one step reaction Pate: Step D is the rate determining step In terms of Kinetics, Rate is dependent on the substrate & bare concentration (attacking) o. Rate = k[R-X][B] where [R-X] -> concentration of substrate

(B) -> concentration of attacking lave :B

Rate constant Conditions:

| Nat OCH; | Monosub disub (magor) For Freaction to occur, Streng attacking lase (OCHz)

· Colar Afronic Solvent (CHzOH)

· D indicates F2 > SN2 In E, the attacking base is weak In E, the attacking base is strong

Polar Aprotic Solvents are involved in Ereactions But the rain factor that influences the type of climination reaction is strength of base to good having group In Br GoCH3 & Br -> good leaving agent 6 Gase: P Hay Hay CH30? (Attacks rear Side)

Branch Hay Branch CH3 (attacks rear Side)

Branch Hay Branch CH30? (Attacks rear Side)

Branch Hay Branch CH30? (Attacks rear Side) But, she to adjacent carbons close together aligned in same plane, leading to steric hinderance/clusher by groups. This sterict hinderance gauses the strong base from attacking the rear side Strong lase favours attacking if there is less storic hinderine X Also (Low steric hinderence) eclipped High steric hinderance