HYBRIDIZATION It is defined as the mixing two Orbitals With Same Energy Level to give new hybrid orbitals. This process is called hybridization. The new Orbital thus formed is Known as hybrid orbitals. Types of Hybridization Based on the types of Orbitals involving in mixing the hybridization can be Classitied OP 26 , 26, 29, 39, 2999, 36, 36, 36, 36, 30,

@ sp Hybridization-It is observed when ones and one p orbital in same shell mix to tem new sp hybridized

Orbital.

It form linear molecules with an angle 10 (180)

Ex- Bech, Cathe es

3 Sp. Hybridization It is Observed when One s and two P Orbitals of men some enery level Mis together to form new sto hybrid Orbitale The Shape Of Sp2 hybrid Orbital is Triponal (Symmetry) at angle 120. FX- BES. CZHY. Sp3 Hybridization-It is observed when One & and three p Orbitals Delenging to same that Shell, by mixed to Jetha and torm Sp3 - (Hybrid orbital) The Shape of On Sp - Tetrahedown Makes a onk 109° 28'-Ex- CaHo, CHY It involves the mixing of 15,30 and 1d Orbital
Shahe at 14d Spod Hybridization -Triggonal Bipyramidal The Shape of spad at angle of 120°. Fr- bot

SHOR (UT To find Hybridizatim Hybridization of Ony atom = no. of atom + Tank bais Otom. 2 -> sp 3 + sp2 4 + 1p3 2 + Vb39 6 + VP3 95 To on Type of Hybridization 1 CHY = 4+0 = 4 = 13 /3 Shape-Tetrahedron

