atom to predict the geometry (bouble bonds count as single bonds as vath (1 bonding area) in determining geometry. @ Hybrid orbitals are a mixture of 2-6 orbitals to make Cabon only has two unbonded, single electrons in the valence shell C+ 25 2p & @@D unhyridized 4 Sp3 orbitals, hybridize to FORM central atom (PICK one of 2 Fs) These 4 chitals bonding and lone pairs of electron pains that will repell (b) The total number of bonding and nonbonding areas. 1 bonding pair 2000/2 H-F- Linear Incorp new orbitals for as electrons. bonding pairs of electrons O/# MH (35) (a) Unshared pairs count as 33.00 VSEPR use the number of F2 6.2×7e= 14e= -F-F electrons on the central of the molecule. F: 1x76: 76 H= | x | c = | c = 上 9 % (44.)

P209 P210 #33,35,36,44,48,49

One of the 4 valence

has temporal electrons (4 bonds)

25p3 0000 gs2

) (a) SC12 C1=2x7= 40 5=1x6= =6e 200 38, INB 2 bonding (central 2 nonbording) atom incas

H-N-H

80

0=426==246 5- 1x60-60

0 = 2x7c = 14e

1 inver 2 bonding

3 Newtond

12/2/27e=7e

30e- +2c

1910

Tetrahedral

3/2-2/KH= # N=1x5c-25e

(C) 50g

2400

Trigonal Planar

Resonance

9

C102

[-6-12-6]