Non: Elemental - Compou	nding
Mixing of Two elements	<b>?</b>
Choive possibility	111-grand & v graw
Ena P.  di ficient excess	
4 - valency e - System - Se	mi bondnebor
	1,1ce 51
(9a-31 152252pb3523pb3d10)	9 5 4 P
	4 5 p3 - or bit of

P-15 -> 152252pt 3523p3 Mixing = 1:1 ratio of GaxP 5 Ga + 5 P Atomy 20 ABMO } 2-3-2-5 ev lo atom = 20 BMO Filled 5×5 = 25/ GaP - Tetra hedral - Structure Each P - surrounded by 4 Ga 4 P ·Ga
P Each haSmaller the Size of Atomy

Greater the extent of overlapping

Greater will be the board galp

Problems

The band gap in GaAs Z GaP?

As is larger Size than P (As>P)

The band gap of GaP L AIP

Ga is larger size than AI [Ga) AI]

The extent of overlapping

GaP < AIP

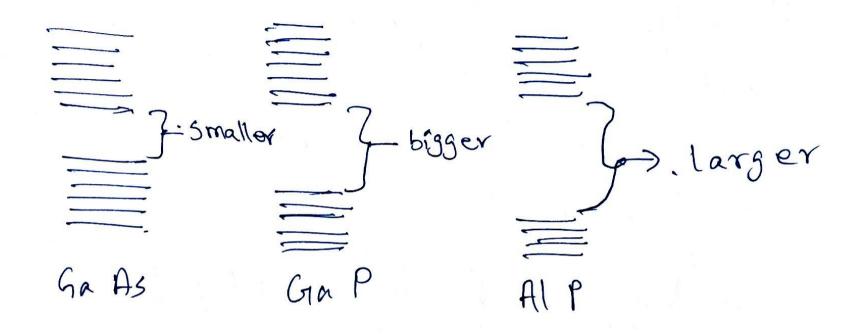
The extent of overlapping

Ga As L GaP

Together

Ga As & GaP < AlP

Band gap increases



Electronegativity (Excluded in 2019 Syllabus)

