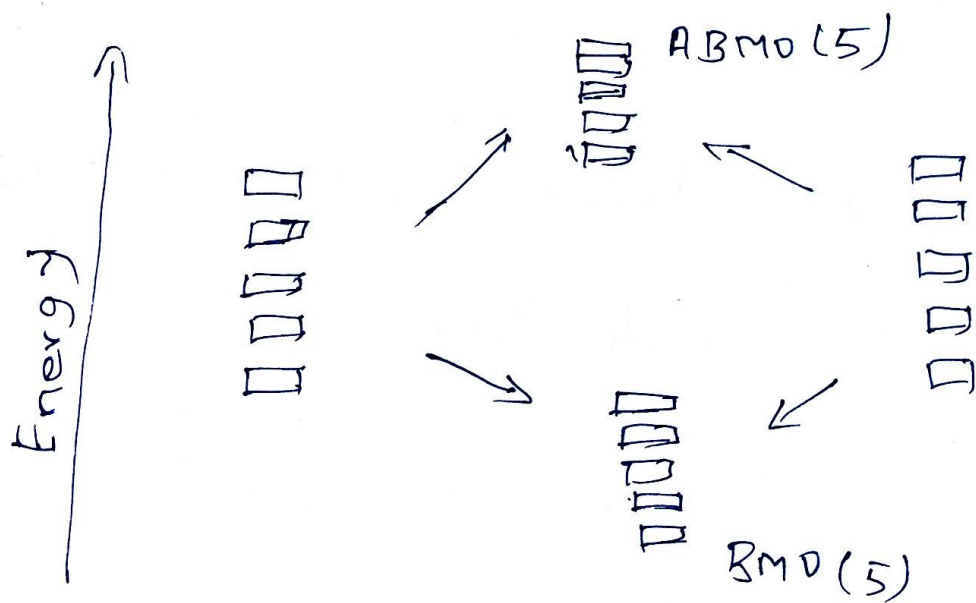


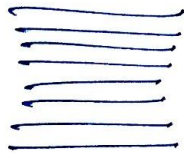
If 10 atoms of 'H'



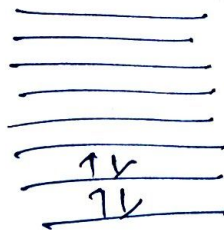
Hence N atomic orbitals $\rightarrow \frac{N}{2}$ B.M.O
 $\frac{N}{2}$ A.B.M.O

For instance, 100 AD - H atom

100 AD'



50 ABMD



50 BMD

} Band

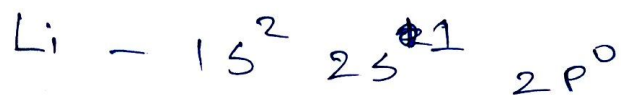
Number of electrons

$$1s' \quad 100 \times 1 = 100 e^-$$

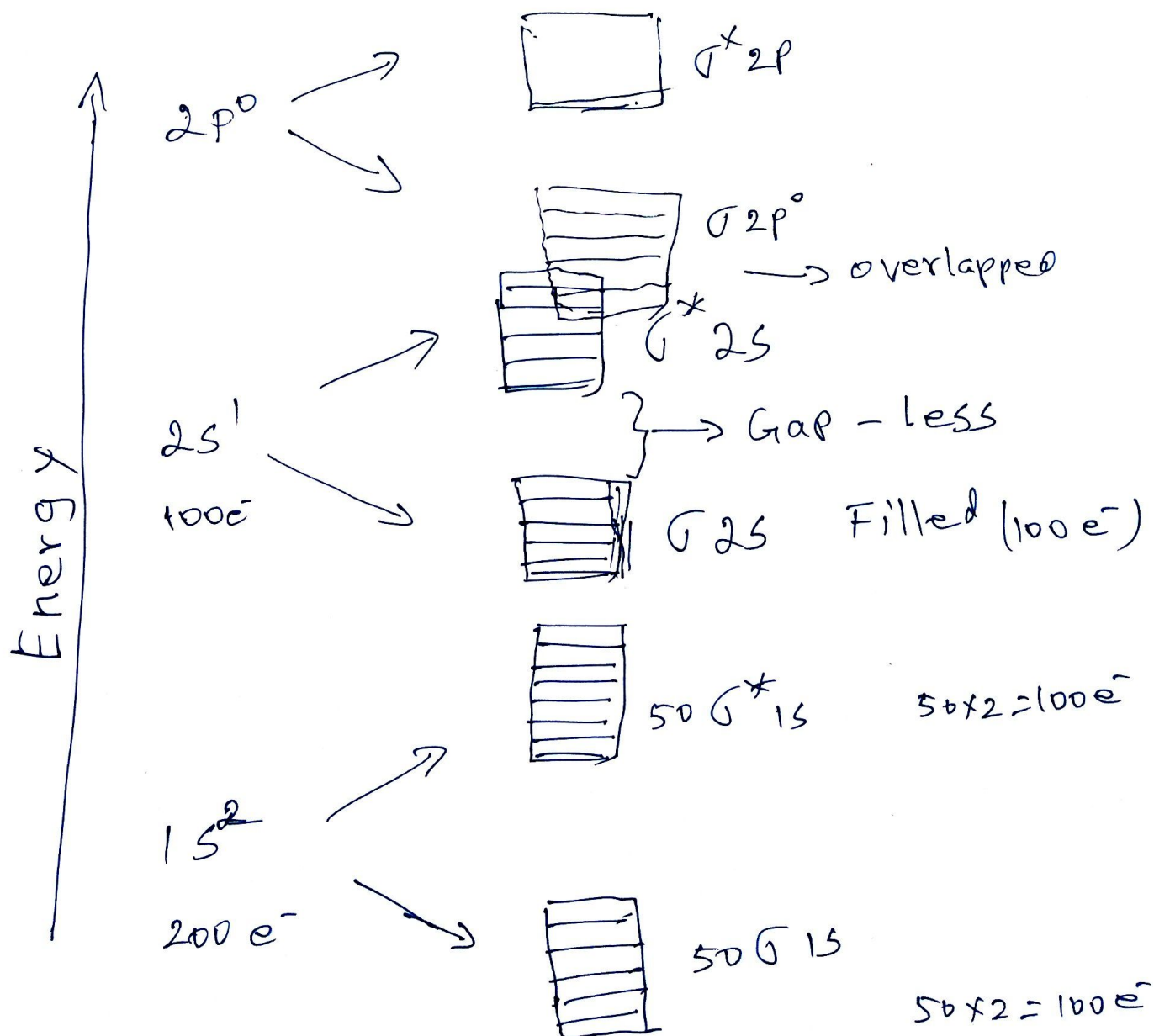
Filled valency Band ($50 \times 2 = 100 e^-$)

Empty conduction Band

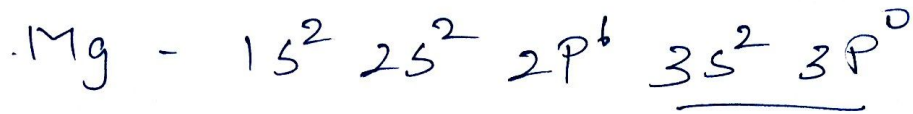
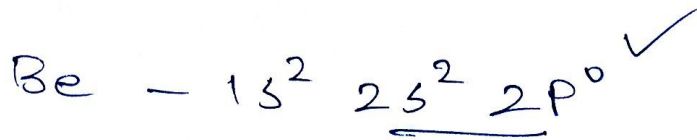
I- Group - Alkali



Li - 100 Atoms



Be and Mg

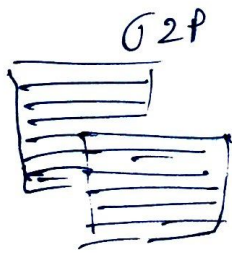


100 Atoms

$2p^0$



$2s^2$



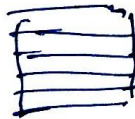
→ overlapped

σ^*_{2s}

100 e^- Filled



100 e^-



100 e^-

$1s^2$

200 e^-



$50 \sigma_{1s}$

100 e^-