

How to assign electrons to atomic
Orbitals:

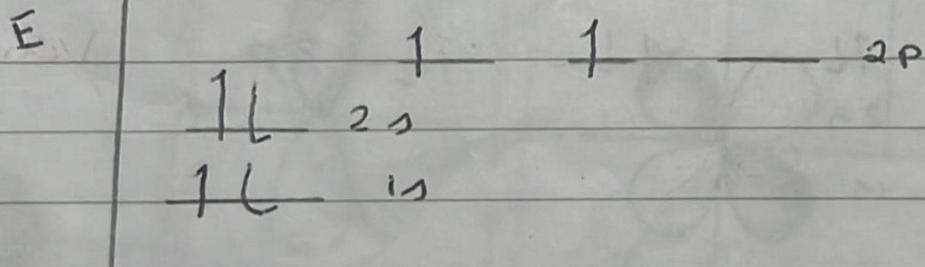
Aufbau principle: Electrons occupy the lowest energy orbital that is available

Hund's rule: Every orbital in a subshell is singly occupied before any orbital is doubly occupied (electrons are only paired when they have to be)

Pauli exclusion principle: An electron cannot occupy the same orbital if they have the same spin (can't have the same 4 quantum numbers)

Carbon electronic structure

$6e^-$



written $1s^2 \quad 2s^2 \quad 2p^2$