ELECTRONIC CONFIGURATION OF ATOMS ELECTRON & NEGATIVE CHARGE O'S CAN ONLY HAVE DISCRETE ENERGIES O'S CANNOT HAVE THE SAME QUANTUM STATE

NOMENCLATURE
$$\longrightarrow$$
 START FROM THE LOWEST ENERGY STATE

1S \longrightarrow 2es \longrightarrow 1s¹ 1s²

2s \longrightarrow 2es \longrightarrow 2s¹ 2s²

2p \longrightarrow 6es \longrightarrow 2p¹ 2p² 2p³ 2p⁴2p⁵ 2p6

3s \longrightarrow 2es \longrightarrow 3s¹ 3s²

3p \longrightarrow 6es \longrightarrow 3p¹ 3p² 3p² 3p⁴ 3p⁵ 3p6

4p \longrightarrow 10es \longrightarrow 3d¹ 3d² 3d² 3d⁴ 3d¹

1 10es \longrightarrow 3d¹ 3d² 3d³ 3d¹ 3d¹

1 14P

COLUMN VIII ELEMENTS

HAVE COMPLETELY FILLED OVIER CHELLS

Ne > 10 ELECTRONS

IS² 25² 2p²

COMPLETELY FILLED NOBEL

(OMPLETELY FILLED LASES

(ONDUCTION"

COLUMN 142

Na
$$\Rightarrow$$
 || ELECTRONS
 $|c^2|^2 2p^6 3s^1$
 $|e|$ || WITH OUTER
SHELL
"VERY REACTIVE"
IDNIC BONDS
ARE FORMED
NaCl
 $|e|$ || Na[†] || ACCEPTS
 $|e|$ || Na[†] || ACCEPTS
 $|e|$ || Na(e) || N

COLUMN 3,4,5 4 C IS² 25² 2p² He IN OUTER SHELL C COVALENT RONDS

COVALENT BONDS

) FORMED BY ELEMENTS IN COLUMN IV -> (, Si, Ge

2) COLUMN III-Y -> COMBINED
GAAS, In P