Inorganic Chemistry

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- 1- What are the quantum numbers for the last electron in 3d7
- 2- What is meant by Exchange energy?

B)

- 1- Write the electronic configuration for 18Ar
- 2- What is meant by Lewis structure?

C)

- 1- What are the quantum numbers for the last electron in 4s2
- 2- What is the difference between valence and core electrons
- D) Calculate shielding effect and effective nuclear charge on the last electron in 28Ni, 14Si
- E) Arrange the following according to increasing effective nuclear charge and give the reason for your arrangement:

6C, 8O, 10Ne

F) Arrange the following according to increasing shielding effect on valence electrons:

4Be, 12Mg, 20Ca

G) Arrange the following according to increase in atomic radii and give the reason for your arrangement

Na, Na⁺, K

Note: Atomic weights: Na = 10, K = 19