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AS Chemistry

C1: Atomic Structure and Periodic Table

Assignment Questions

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Year 2023

Atomic Structure and Periodic Table Assignment -1

Q1 : Draw the structures of s , p and d quantum shells.

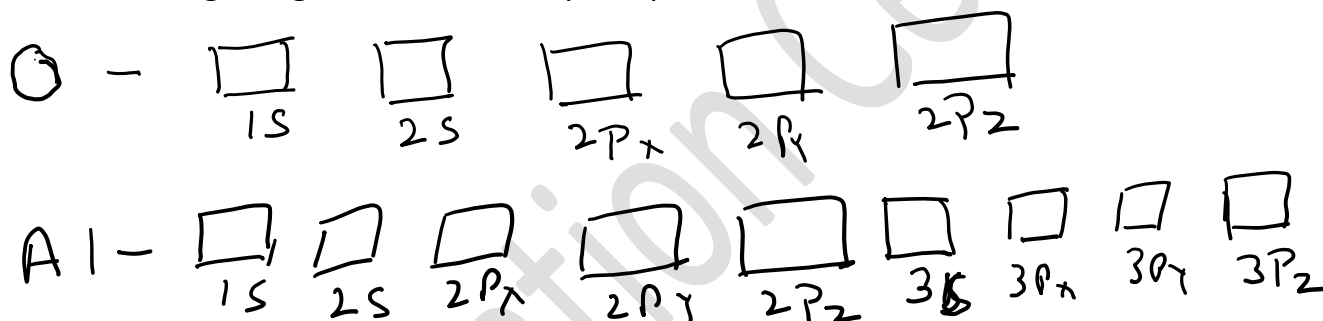
Q2: Explain Hund's rule with example.

Q3 : Explain Pauli Exclusion Principle with example.

Q4: i) Write down the electronic configuration of following :

a) Oxygen b) Nitrogen

ii) Fill up the following using Pauli's exclusion principle :



Q5: Write down the electronic configuration of Calcium. Describe the changes in electronic configuration.

Q6: What is ionisation energy?

Q7: Write the equations to represent:

- a) Third ionisation energy of Aluminium
- b) The fourth ionisation energy of Carbon.

Q8: What are the factors on which ionisation energy of an atom depends on?

Q9 : What are Isotopes ? Give example.

Q10 : How many protons neutrons and electrons are in Carbonate ion CO_3^{2-} ?