Answer on the Question #63647, Chemistry / General chemistry

Determine the following about electron shells, electrons subshell, and electron orbitals. A) Find the number of electron subshells in shell. B) The number of electron orbital in a 3d subshell. C) The maximum number of electron that could be contained in a 2P subshell. D) The maximum number of electron in a 2P shell.

Answer:

- A) 1 shell 1 subshell (1s²)
 - 2 shell 2 subshells (2s², 2p⁶)
 - 3 shell 3 subshells (3s², 3p⁶, 3d¹⁰)
 - 4 shell 4 subshells (4s², 4p⁶, 4d¹⁰, 4f¹⁴)
 - 5 shell 5 subshells (5s², 5p⁶, 5d¹⁰, 5f¹⁴, 5g¹⁸)
 - 6 shell 6 subshells (6s², 6p⁶, 6d¹⁰, 6f¹⁴, 6g¹⁸, 6h²²)
 - 7shell 7 subshells (7s², 7p⁶, 7d¹⁰, 7f¹⁴, 7g¹⁸, 7h²², 7i²⁶)
- B) There are 5 electron orbitals on the 3d subshell.
- C) There are 6 electros maximum could be on the 2p subshell.
- D) The maximum number of electrons in a 2 shell are 8 electrons.