

QUANTUM NUMBERS WORKSHEET

1. State the four quantum numbers, then explain the possible values they may have and what they actually represent.

n – Principal Quantum Number: represents the energy level the electron is in, linked to the periods of the periodic. Can be 1 to 7

l – Secondary Quantum Number/Orbital Shape Quantum number: represents the shape of the orbital- s, p, f, d. l is a range of n-1.

m_l – Magnetic quantum number: represents the number of orbits possible. M_l is a range of l.

m_s – Spin Quantum number: represents the electron and its spin. Two possibilities +1/2, -1/2

2. State the number of possible electrons described by the following quantum numbers

- a. n = 3, l = 0 **2**
- b. n = 3, l = 1 **6**
- c. n = 3, l = 2, m_l = -1 **2**
- d. n = 5, l = 0, m_l = 2, m_s = 1/2 **Not possible**

3. Give the n and l values for the following orbitals

- a. 1s n=1 l=0
- b. 3s n=3 l=0
- c. 2p n=2 l=1
- d. 4d n=4 l=2
- e. 5f n=5 l=3

4. What is the m_l values for the following types of orbitals?

- a. s m_l= **0**
- b. p m_l= -1, 0, 1
- c. d m_l= -2, -1, 0, 1, 2
- d. f m_l= -3, -2, -1, 0, 1, 2, 3

5. How many possible orbitals are there for n =

- a. 4 s-1, p-3, d-5, f-7= **16** orbitals
- b. 6 **9** orbitals

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