

Question 1(1 point): If the principle quantum number is 4, what values can the angular momentum number (ℓ) have?

3, 2, 1 and 0

Question 2 (1 point): How many electrons can the third energy level have?

Total = 18

n = 3 l = 0 2 e-
l = 1 6 e-
l = 2 10 e-

Question 3 (2 points): What does the spin quantum number tell us and what values can it have?

How the electron is spinning either N (+1/2) or S (-1/2)