A.
$$n = 4, l = 3, m_l = -2, m_s = +1/2$$

B.
$$n = 3, l = 2, m_l = -3, m_s = -1/2$$

C.
$$n = 3, l = 0, m_l = 0, m_s = +1/2$$

D.
$$n = 4, l = 1, m_l = 1, m_s = -1/2$$

E.
$$n = 2, l = 0, m_l = 0, m_s = +1/2$$

39. The orbital diagram for a ground-state oxygen atom is

40. Which of the following ground-state electron configurations are correct for the atom or ion shown?

 In what row and group of the periodic table would you find the element with the electron configuration [Kr]5s²4d¹⁰5p²?

42. Which one of the following pairs are isoelectronic?

43. Which of the atoms listed below has the largest radius?

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N Colangelo

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