

Chem 210 Final exam study guide, Questions and Correct Answers, 2024. With complete solution.

What is ground state electron configuration of Co?

- [Ar]3d⁹
- [Ar]4s¹ 3d⁸
- [Ar]4s² 3d⁷
- [Ar]4s² 4p⁶ 4d¹
- [Ar]4s² 3d⁷

molybdenum has an anomalous electron configuration. using the shorthand notation for electron configurations, write the electron configuration

- A) [kr]5s 4d⁶
- B) [kr]5s 4d⁰ 5p⁶
- C) [kr]5s¹ 4d⁵
- D) [kr]5s² 4d⁴
- C) [kr]5s¹ 4d⁵

the symbol [Kr] represents

- a) 4s² 4p⁶
- b) 1s² 2s² 2p⁶ 3s⁶ 4s² 4p⁶
- c) 1s² 2s² 2p⁶ 3s⁶ 4s² 3d¹⁰ 4p⁶
- D) 1s² 2s² 2p⁶ 3s⁶ 4s² 3d¹⁰ 4p⁶ 4d¹⁰
- c) 1s² 2s² 2p⁶ 3s⁶ 4s² 3d¹⁰ 4p⁶

What is the wavelength of UV light in the balmer series when m=2 and n=7?

- a) 0.00252 nm
- b) 397 nm
- c) 337 nm
- d) 0.00297 nm
- b) 397 nm

How many electrons can a single orbital hold?

- A) 2n
- B) 2
- C) 2l+1
- D) 8
- B) 2

What are the possible values of l and m_l for an electron in a 5d orbital?

- A) l=0 and m_l=0
- B) l=3 and m_l=-2,-1,0,+1, or +2
- c) l=1 and m_l=-1,0,+1
- D) l=2 and m_l=-2,-1,0,+1, +2
- D) l=2 and m_l=-2,-1,0,+1, +2

What is the de Broglie wavelength of an electron (m=9.11e-31 kg) moving at a velocity of 3.0e7m/s?

- a) 3.9e-12
- b) 2.4e-11

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G. Marc Loudon, Joseph G. Stowell

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