Electron Configuration Practice Worksheet KEY

In the space below, write the unabbreviated electron configurations of the following elements:

- sodium 1s² 2s² 2p⁶ 3s¹
- 2) iron 1s² 2s² 2p⁶ 3s² 3p⁶ 4s² 3d⁶
- bromine 1s² 2s² 2p⁶ 3s² 3p⁶ 4s² 3d¹⁰ 4p⁶
- 4) barium 1s2 2s2 2p6 3s2 3p6 4s2 3d10 4p6 5s2 4d10 5p6 6s2
- 5) neptunium 1s² 2s²2p⁶3s²3p⁶4s² 3d⁶⁰ 4p⁶ 5s² 4d⁶⁰ 5p⁶ 6s² 4f⁶⁴ 5d⁶⁰ 6p⁶ 7s² 5f⁶

In the space below, write the abbreviated electron configurations of the following elements:

- 6) cobalt [Ar] 4s²3d⁷
- 7) silver [Kr] 5s²4d⁹
- 8) tellurium [Kr] 5s24d105p4
- radium [Rn] 7s²
- 10) lawrencium [Rn] 7s25f46d1

Determine what elements are denoted by the following electron configurations:

- 11) 1s²2s²2p⁶3s²3p⁴ Sulfur
- 12) 1s²2s²2p⁶3s²3p⁶4s²3d¹⁰4p⁶5s¹ Rubidium
- 13) [Kr] 5s²4d¹⁰5p³ Antimony
- 14) [Xe] 6s²4f¹⁴5d⁶ Osmium
- 15) [Rn] 7s25f11 Einsteinium

Determine which of the following electron configurations are not valid:

- 16) 1s²2s²2p⁶3s²3p⁶4s²4d¹⁰4p⁵ should be 3d¹⁰
- 17) 1s²2s²2p⁶3s¹3d⁵ 3s³ is impossible& "p" instead of "d"
- 18) [Ra] 7s²5f⁸ Ra is not a noble gas
- 19) [Kr] 5s²4d¹⁰5p⁵ Valid
- 20) [Xe] Element can't be its own electron configuration.

Electron Arrangements Lab Answer Key

BM King

Electron Arrangements Lab Answer Key:

Electron Arrangements Lab Answer Key: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read: Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Electron Arrangements Lab Answer Key: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Electron Arrangements Lab Answer Key: Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a guiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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