Name: Worksheet: Electron Configurations Period: Which electron configuration represents an atom in an Which sublevel configuration correctly represents a excited state? completely filled third principal energy level? C) $1s^22s^22p^63s^23p^2$ A) 1s22s22o63o1 A) 30°30°30° C) $3a^23a^63d^{10}$ B) $1s^22s^22p^63s^23n^6$ BO 3x23xx23xd20 D) 3a23a63a6 All of the elements in Period 3 have a total of 2 10. Which atom in the ground state contains a partially electrons in the fillled 3p orbital? A) 2x sublevel C) 2n sublevel A) airgon C) potassiium. B) 3s sublevel. D) 3p sublevel B) calcium; D) aluminum 11. In the ground state, the atoms of elements in Period 2 3. Which atom in the ground state has three unpaired electrons in its outermost principal energy level? all have the same number of AY LA C) N A) protons C) Ls electrons. B) 100 Di No B) neutrons D) exidation states. 12. Which is the electron configuration for a neutral atom 4. What is the total number of valence electrons in an atom with the electron configuration $1s^22s^22p^63s^23p^3$? in the ground state? C) 1s²2s²2p⁶3p¹ D) 1s²2s²2p⁶3s¹ A) $1s^22s^23s^1$ A.1 6 (C) 3 B) $1s^22s^22\phi^43s^1$ B) 2 D) 5 5. Which orbital notation represents an atom of beryllium 13. Which represents the electron configuration of an in the ground state? isotope of oxygen in the ground state? C) 1s²2s²2p² D) 1s²2s²2p⁴ A) 1s22s22e1 JACK. 2p2 2 B) $1s^22s^22m^2$ 14. The total number of sublevels in the fourth principal energy level of an atom is A) 1 CO 3 B) 2 (D) 4 15. Which is a possible electron configuration for argon in the excited state? C) 1s²2s²2p⁶3s¹3p⁷ D) 1s²2s²2p⁶3s²3p⁵4s¹ A) 1s²2s²2o⁷3s²3o⁵ B) $1s^22s^32a^53s^23a^6$ 16. Which is a correct description of the shape and spatial orientation of the p orbitals in an atom? All have the same shape but a different orientation. All have the same shape and the same orientation. All have a different shape and a different orientation. 6. Which element has a completely filled third principal All have a different shape but the same orientation. energy level? 17. A maximum of 6 electrons can occupy A) Ar C) Fe D) Zn A) an s orbital. C) a p orbital HER IN B) an s sublevel D) a p sublevel Which atom in the ground state has only 3 electrons in the 3e sublevel? 18. How does the ground state electron configuration of A) phosphorus the hydrogen atom differ from that of a ground state helium C) argon ancess? B) potassium D) aluminom A) Hydrogen has one electron in a higher energy level. 8. What is the total number of occupied principal energy Hydrogen has two electrons in a lower energy level.

C) Hydrogen contains a half-filled orbital.
 D) Hydrogen contains a completely filled orbital.

levels in a neutral atom of neon in the ground state?

C) 3:

D) 4

A(1) = 1

B() 2:

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