

## CHAPTER 4 REVIEW

**Arrangement of Electrons in Atoms****SECTION 2****SHORT ANSWER** Answer the following questions in the space provided.

1. \_\_\_\_\_ How many quantum numbers are used to describe the properties of electrons in atomic orbitals?  
(a) 1 (c) 3  
(b) 2 (d) 4
2. \_\_\_\_\_ A spherical electron cloud surrounding an atomic nucleus would best represent  
(a) an *s*-orbital. (c) a combination of two different *p*-orbitals.  
(b) a *p*-orbital. (d) a combination of an *s* and a *p*-orbital.
3. \_\_\_\_\_ How many electrons can an energy level of  $n = 4$  hold?  
(a) 32 (c) 8  
(b) 24 (d) 6
4. \_\_\_\_\_ How many electrons can an energy level of  $n = 2$  hold?  
(a) 32 (c) 8  
(b) 24 (d) 6
5. \_\_\_\_\_ Compared with an electron for which  $n = 2$ , an electron for which  $n = 4$  has more  
(a) spin. (c) energy.  
(b) particle nature. (d) wave nature.
6. \_\_\_\_\_ According to Bohr, which is the point in the figure below where electrons cannot reside?  
(a) point A (c) point C  
(b) point B (d) point D



7. \_\_\_\_\_ According to the quantum theory, point D in the above figure represents:  
(a) the fixed position of an electron.  
(b) the furthest position from the nucleus that an electron can achieve.  
(c) a position where an electron probably exists.  
(d) a position where an electron cannot exist.

# Electrons In Atoms Chapter Test A Answer Key

**Peter Atkins**



## **Electrons In Atoms Chapter Test A Answer Key:**

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is placed on understanding of and insight into the material presented      *Comprehensive Qualitative Analysis for Advanced Level Chemistry* E. N. Lambert, M. J. Mohammed, 1978      *Theory of Electron—Atom Collisions* Philip G. Burke, Charles J. Joachain, 2013-06-29 The authors aim to hone the theory of electron atom and electron ion collisions by developing mathematical equations and comparing their results to the wealth of recent experimental data This first of three parts focuses on potential scattering and will serve as an introduction to many of the concepts covered in Parts II and III As these processes occur in so many of the physical sciences researchers in astrophysics atmospheric physics plasma physics and laser physics will all benefit from the monograph      *Biological Science* Jon Scott, Anne Goodenough, Gus Cameron, Dawn Hawkins, Martin Luck, Jenny Koenig, Alison Snape, Despo Papachristodoulou, Kay Yeoman, Mark Goodwin, 2022 A fresh approach to biology centred on a clear narrative active learning and confidence with quantitative concepts and scientific enquiry Spanning the breadth of biological science and designed for flexible learning it will give you a deeper understanding of the key concepts and an appreciation of biology as a dynamic experimental science      **Shriver and Atkins' Inorganic Chemistry** Peter Atkins, 2010 Inorganic Chemistry fifth edition represents an integral part of a student's chemistry education Basic chemical principles are set out clearly in Foundations and are fully developed throughout the text culminating in the cutting edge research topics of the Frontiers which illustrate the dynamic nature of inorganic chemistry      **Quanta, Matter, and Change** Peter Atkins, Julio de Paula, Ronald Friedman, 2009 aspects of the learning process are fully supported including the understanding of terminology notation mathematical concepts and the application of physical chemistry to other branches of science Building on the heritage of the world renowned Atkins Physical Chemistry Quanta Matter and Change gives a refreshing new insight into the familiar by illuminating physical chemistry from a new direction Book Jacket *Inorganic Chemistry* Mark Weller, Mark T. Weller, Tina Overton, Jonathan Rourke, Fraser Armstrong, 2014 Leading the reader from the fundamental principles of inorganic chemistry right through to cutting edge research at the forefront of the subject Inorganic Chemistry Sixth Edition is the ideal course companion for the duration of a student's degree The authors have drawn upon their extensive teaching and research experience in updating this established text the sixth edition retains the much praised clarity of style and layout from previous editions while offering an enhanced Frontiers section Exciting new applications of inorganic chemistry have been added to this section in particular relating to materials chemistry and medicine This edition also sees a greater use of learning features to provide students with all the support they need for their studies Providing comprehensive coverage of inorganic chemistry while placing it in context this text will enable the reader to fully master this important subject Online Resource Centre For registered adopters of the text Figures marginal structures and tables of data ready to download Test bank For students Answers to self tests and exercises from the book Videos of chemical reactions Tables for group theory Web links Interactive structures and other resources on [www.chemtube3d.com](http://www.chemtube3d.com)

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1. Understanding the eBook **Electrons In Atoms Chapter Test A Answer Key**
  - The Rise of Digital Reading **Electrons In Atoms Chapter Test A Answer Key**
  - Advantages of eBooks Over Traditional Books
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  - Popular eBook Platforms
  - Features to Look for in an **Electrons In Atoms Chapter Test A Answer Key**
  - User-Friendly Interface
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  - Minimizing Distractions
  - Managing Screen Time
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  - Setting Reading Goals Electrons In Atoms Chapter Test A Answer Key
  - Carving Out Dedicated Reading Time
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  - Fact-Checking eBook Content of Electrons In Atoms Chapter Test A Answer Key
  - Distinguishing Credible Sources
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