

8 • Electron Configurations & Periodicity

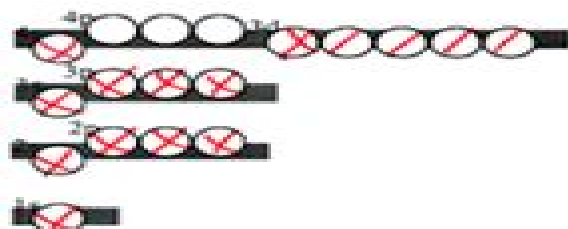
WRITING ELECTRON CONFIGURATIONS

For each given element, fill in the orbital diagram and then write the electron configuration for the element.

1.	2.	3.	4.	5.	6.
Element: Ar # of e ⁻ s: <u>18</u>	Element: Mg # of e ⁻ s: <u>12</u>	Element: N # of e ⁻ s: <u>7</u>	Element: Li # of e ⁻ s: <u>3</u>	Element: P # of e ⁻ s: <u>15</u>	Element: Cl # of e ⁻ s: <u>17</u>

Write the electron configurations of each of these in **long form** and **short form**:

- Ar $1s^2 2s^2 2p^6 3s^2 3p^6$
 Ar $[\text{Ne}] 3s^2 3p^6$
- Mg $1s^2 2s^2 2p^6 3s^2$
 Mg $[\text{Ne}] 3s^2$
- N $1s^2 2s^2 2p^3$
 N $[\text{He}] 2s^2 2p^3$
- Li $1s^2 2s^1$
 Li $[\text{He}] 2s^1$
- P $1s^2 2s^2 2p^6 3s^2 3p^3$
 P $[\text{Ne}] 3s^2 3p^3$
- Cl $1s^2 2s^2 2p^6 3s^2 3p^5$
 Cl $[\text{Ne}] 3s^2 3p^5$



- Fill in the orbital diagram for the element, Fe, and write the electron configuration of Fe in the long and short form.



Part C Electron Configuration Answers

Alla Appa Rao



Part C Electron Configuration Answers:

Regents Exams and Answers: Chemistry--Physical Setting Revised Edition Barron's Educational Series, Albert Tarendash, 2021-01-05 Barron's Regents Exams and Answers Chemistry provides essential practice for students taking the Chemistry Regents including actual recently administered exams and thorough answer explanations for all questions This book features Eight actual administered Regents Chemistry exams so students can get familiar with the test Thorough explanations for all answers Self analysis charts to help identify strengths and weaknesses Test taking techniques and strategies A detailed outline of all major topics tested on this exam A glossary of important terms to know for test day **E3**

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electrochemistry and more While Homework Helpers Chemistry is an excellent review for any standardized Chemistry test including the SAT II its real value is in providing support and guidance during the year s entire course of study **Sat**

Subject Test - Chemistry Kevin R. Reel, 2006-07-10 Contains SAT test preparation for the subject of chemistry and offers six full length practice tests along with a chemistry review on all topics Also provides two full length practice tests on a CD ROM which are time and scored and includes explanations **20 Practice Sets for SSC Stenographer Grade C & D**

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Principles and Techniques of Protein Chemistry Part C Sydney Leach, 2012-12-02 Physical Principles and Techniques of Protein Chemistry Part C focuses on the effects of intermolecular interactions that are transmitted between ligands and proteins and from protein to protein This book discusses the density and volume change measurements direct volume change osmotic pressure and small angle X ray scattering The theory of particulate scattering pulsed nuclear magnetic resonance absorption of water by diamagnetic molecules and use of least squares in data analysis are also elaborated This text likewise covers the iteration process optical rotatory dispersion and the main chain conformation of proteins and basic relations for optically active molecules Other topics include the circular dichroism secondary structure of proteins visible rotatory dispersion and peptide cotton effects This publication is intended for protein chemists but is also useful to biologists medical practitioners and students researching on protein chemistry **Cracking the SAT II Chemistry** Theodore Silver, Princeton Review (Firm), 2005-03 Why The Princeton Review 1 We Know the SAT Chemistry Subject Test The experts at The Princeton Review have spent many years researching the SAT Chemistry Subject Test as well as numerous other standardized tests We re confident this guide delivers the most current and complete information you need to ace this test 2 We Get Results Our inventive approach to standardized test taking has revolutionized the test prep industry and made our courses and tutoring for the SAT and SAT Subject Tests the most popular anywhere The same proven techniques we teach in our courses are also covered in this book 3 We Understand Students Each year we help more than two million students score higher on standardized tests and gain admission to top schools with our books courses tutors and online tools 4 And If It s on the SAT Chemistry Subject Test It s in This Book The Princeton Review realizes that acing the SAT Chemistry Subject Test is very

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Basic Concepts of Chemistry Leo J. Malone, Theodore Dolter, 2008-12-03. Engineers who need to have a better understanding of chemistry will benefit from this accessible book. It places a stronger emphasis on outcomes assessment, which is the driving force for many of the new features. Each section focuses on the development and assessment of one or two specific objectives. Within each section, a specific objective is included, an anticipatory set to orient the reader, content discussion from established authors, and guided practice problems for relevant objectives. These features are followed

by a set of independent practice problems The expanded Making it Real feature showcases topics of current interest relating to the subject at hand such as chemical forensics and more medical related topics Numerous worked examples in the text now include Analysis and Synthesis sections which allow engineers to explore concepts in greater depth and discuss outside relevance *Internal Revenue Cumulative Bulletin* United States. Internal Revenue Service,2001 **Internal Revenue Bulletin** United States. Internal Revenue Service,2001-03 , *Cracking the SAT Chemistry Subject Test, 2013-2014 Edition* Princeton Review,2013-04-23 If you need to know it it s in this book This eBook version of the 2013 2014 edition of Cracking the SAT Chemistry Subject Test has been optimized for on screen viewing with cross linked questions answers and explanations It includes 3 full length practice tests with detailed explanations Review of all essential content from chemical equations to kinetcis to electron configurations Helpful study lists of key lab equipment and a cheat sheet of important equations Key strategies that will help maximize your score Tons of sample problems and drills with detailed explanations

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