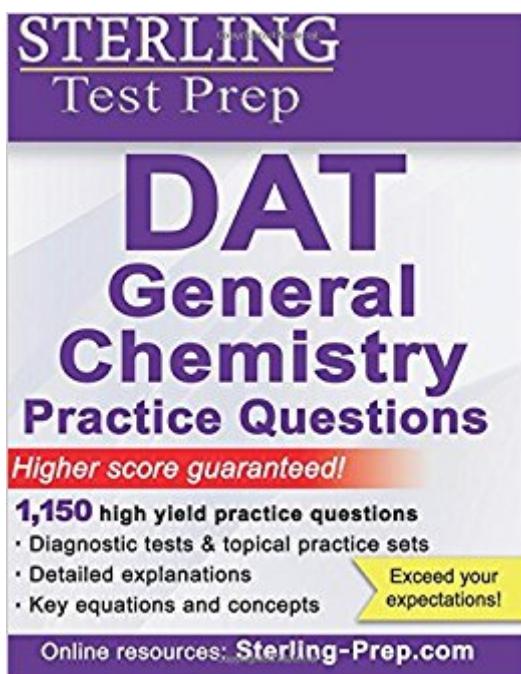


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Sterling DAT General Chemistry Practice Questions: High Yield DAT General Chemistry Questions



Synopsis

DAT Gen Chem best seller! A NEW edition with complete explanations! 1,150 general chemistry practice questions with detailed explanations covering all topics tested on the General Chemistry section of DAT : A A Electronic and atomic structure of matter A A Periodic table A A Chemical bonding A A States of matter: gases, liquids, solids A A Solution chemistry A A Acids and bases A A Stoichiometry A A Equilibrium and reaction rates A A Thermochemistry A A Electrochemistry

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Customer Reviews

Scoring well on the General Chemistry portion of the DAT is important for admission into dental school. A To achieve a high score, you need to develop skills to properly apply the knowledge you have and quickly choose the correct answer. A You must solve numerous practice questions that represent the style and content of the DAT questions. A Understanding key science concepts is more valuable than memorizing terms. A This book provides over 1,150 chemistry practice questions that test your knowledge of all DAT General Chemistry topics. A At the back of the book, you will find answer keys (use them to verify your answers) and explanations to questions. A A These explanations provide step-by-step solutions for quantitative questions and detailed explanations for conceptual questions. A A This book covers the foundations of general chemistry topics needed to answer related questions on the test. A By reading these explanations carefully and understanding how they apply to solving the question, you will learn important chemistry concepts and the relationships between them. A This will prepare you for the test and you will significantly increase

your score. All the questions are prepared by our science editors who possess extensive credentials and are educated in top colleges and universities. Our editors are experts on teaching sciences, preparing students for standardized science tests and have coached thousands of undergraduate and graduate school applicants on admission strategies. Used books may have outdated content. We make content updates regularly based on customers' comments, editorial input and latest test changes. The most current version is only available directly from (sold & shipped by), Barnes & Noble and Sterling Test Prep web store.

Electronic and Atomic Structure of Matter; Periodic Table
Atomic theory and atomic mass; atomic number and mass number
Representative elements, transition elements
Electron energy levels: atomic spectra, quantum numbers, atomic orbitals
Periodic relationships and trends (atomic radii, ionization energies, electron affinities, oxidation states)
Bonding
Bonding properties and structures
Ionic, covalent, metallic bonds
Polarity of bonds, electronegativities
Molecular geometry
Intermolecular forces (hydrogen bonding, dipole-dipole, London dispersion forces)
Molecular models: valence bond theory, hybridization of orbitals, resonance, sigma and pi bonds
States of Matter: Gases, Liquids, Solids
Dalton's, Boyle's and Charles' laws; ideal gas law
Kinetic molecular theory of gases
Molar volumes, density
Types of solids, phase changes, phase diagrams
Changes of state, critical phenomena, crystal structure
Intermolecular forces
Solution Chemistry
Solution preparation, types of solutions, stoichiometry
Molarity and percent by mass concentrations
Solubility of solids, liquids and gases
Precipitation and solubility rules
Colligative properties; interionic attraction
Acids and Bases
Strong and weak acids and bases
Brønsted-Lowry theory
pH, titrations, indicators
Oxidation-reduction reactions
Stoichiometry
Molar mass, Avogadro's number
Empirical and molecular formulas
Ionic and molecular species present in chemical systems; net-ionic equations
Balancing of chemical equations
Stoichiometric calculations, percent yield, limiting reactants
Equilibrium and Reaction Rates
Equilibrium systems
Le Chatelier's principle and position of equilibrium
Equilibrium constants, equilibrium expressions
Factors affecting reaction rates; rate constant; rate-determining step
Potential energy, activation energy
Thermodynamics and Thermochemistry
First law: heat of formation; heat of

reaction; change in enthalpy, Hess's law; heat capacity; heats of vaporization and fusion
Second law: free energy of formation; free energy of reaction; dependence of change in free energy on enthalpy and entropy changes Hess law; spontaneity
Chemical reactions, heating and cooling curves, entropy
Electrochemistry
Galvanic and electrolytic cells
Redox reactions (including half-reactions) within electrochemical cells
Standard reduction potentials, oxidation number
Answer Keys & Explanations

I focused my DAT prep on practicing questions and this book has a lot of general chemistry questions that cover all topics tested on the DAT. I think the questions are good quality and cover a variety of important concepts. I highly recommend to do your concepts review and use this book to practice solving the problems this way you will acquire/perfect your ability to apply your knowledge of the material.

The book is well written and the amount of material is great. I used the book to identify my strengths and weaknesses. I am much more familiar with the concepts and have increased my confidence. The volume of practice material is what my studying was missing. My friend took the DAT and he recommended the book. I'm glad that I took his advice and bought the book.

The questions were well written, I liked that the chapters allowed me to practice discrete topics covered on the DAT. I asked my chem instructor to review the book for me and he said the material looked solid. I spent the time to practice all the questions and I am really happy that I did. I feel much more prepared for the chem section of the DAT.

Not only does this book have questions dealing with calculations, it contains questions testing the concepts, which the recent DAT tests quite heavily. I think this book will be a good addition to the questions to solve after watching Chad's videos in addition to the online quizzes on coursesaver.com.

I took the DAT recently and got my results. I am very happy with my scores, and science in particular. I used these gen chem practice questions to focus my studying. I had been reviewing the content for the DAT and needed to take practice questions to flush out my understanding for strengths and weaknesses. Very valuable material here (along with their Biology/biochemistry book). Highly recommend these practice questions to be sure that you are ready for the types of questions

on the DAT. The explanations helped me reinforce and distinguish between similar choices. These also helped for those questions that I had not been exposed to from my preparation of the topics.

The chemistry questions were very helpful for me to prepare for the DAT. I am glad that I used this book to prep for the exam. I told several of my friends about this book and suggested they use it to get ready for test day.

I really think this book helped me prepare for the chemistry section of the DAT. I used the questions to focus on my weaknesses. Very valuable preparation for the DAT. I took my roommate's advice about this book and happy with the results.

Questions in the book are very similar to the DAT. Excellent practice to get ready for test day. Explanations really helped me review the fundamentals and add to my understanding of the material. Great book for the edge on the DAT. Questions and explanations prepared me for the test. Many questions I reviewed here were those that I didn't even know would be helpful on the actual test - glad I bought this book and worked the problems.

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