

Chemistry Chapter 5 Exam

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- _____ 1. The idea of arranging the elements in the periodic table according to their chemical and physical properties is attributed to
 - a. Mendeleev.
 - b. Moseley.
 - c. Bohr.
 - d. Ramsay.
- _____ 2. Mendeleev left spaces in his periodic table and predicted several elements and their
 - a. atomic numbers.
 - b. colors.
 - c. properties.
 - d. radioactivity.
- _____ 3. Mendeleev attempted to organize the chemical elements based on their
 - a. symbols.
 - b. properties.
 - c. atomic numbers.
 - d. electron configurations.
- _____ 4. Mendeleev noticed that properties of elements usually repeated at regular intervals when the elements were arranged in order of increasing
 - a. atomic number.
 - b. density.
 - c. reactivity.
 - d. atomic mass.
- _____ 5. Mendeleev is credited with developing the first successful
 - a. periodic table.
 - b. method for determining atomic number.
 - c. test for radioactivity.
 - d. use of X rays.
- _____ 6. Mendeleev did not always list elements in his periodic table in order of increasing atomic mass because he grouped together elements with similar
 - a. properties.
 - b. atomic numbers.
 - c. densities.
 - d. colors.
- _____ 7. In developing his periodic table, Mendeleev listed on cards each element's name, atomic mass, and
 - a. atomic number.
 - b. electron configuration.
 - c. isotopes.
 - d. properties.
- _____ 8. Mendeleev predicted that the spaces in his periodic table represented
 - a. isotopes.
 - b. radioactive elements.
 - c. permanent gaps.
 - d. undiscovered elements.
- _____ 9. Mendeleev's table was called periodic because the properties of the elements
 - a. showed no pattern.
 - b. occurred at repeated intervals called periods.
 - c. occurred at regular time intervals called periods.
 - d. were identical.
- _____ 10. The person whose work led to a periodic table based on increasing atomic number was
 - a. Moseley.
 - b. Mendeleev.
 - c. Rutherford.
 - d. Cannizzaro.
- _____ 11. Moseley's work led to the realization that elements with similar properties occurred at regular intervals when the elements were arranged in order of increasing
 - a. atomic mass.
 - b. density.
 - c. radioactivity.
 - d. atomic number.
- _____ 12. Who used his experimental evidence to determine the order of the elements according to atomic number?
 - a. Meyer
 - c. Stas

Modern Chemistry Chapter 5 Review Answer Key

Katrin Zwirgmaier



Modern Chemistry Chapter 5 Review Answer Key:

Foundations of College Chemistry Morris Hein, Susan Arena, Cary Willard, 2023 Foundations of College Chemistry 16th edition presents chemistry as a modern vital subject and is designed to make introductory chemistry accessible to all beginning students It is intended for students who have never taken a chemistry course or those who had a significant interruption in their studies but plan to continue with the general chemistry sequence The central focus is to make chemistry interesting and understandable and teach students the problem solving skills they will need This International Adaptation offers new and updated content with improved presentation of all course material It builds on the strengths of previous editions including clear explanations and step by step problem solving The material emphasizes real world applications of chemistry as the authors develop the principles that form the foundation for the further study of chemistry There is new and expanded coverage of polarizing power and polarizability Fajans rules collision number and mean free path abnormal molecular masses and van t Hoff factor and applications of radioactivity

Medicinal Chemistry Norma K Dunlap, Donna M Huryn, 2025-11-28 This book provides a concise introduction to the medicinal chemistry of therapeutically active compounds Written in an accessible style it offers a brief overview of the drug development process from discovery to approved drug Emphasizing medicinal chemistry strategies the content is organized by target as well as therapeutic area drug classes It covers existing drugs and the discovery process that led to their development Aimed at students and professionals interested in drug discovery Medicinal Chemistry requires little prior knowledge making it ideal for classroom and training seminar use Written by experts in the field this outstanding new edition explains medicinal chemistry on chemical mechanism terms allowing for a more interesting and user friendly text Includes valuable insights toward the various pathways taken by the pharmaceutical industry in drug discoveries Enhanced text includes questions raised and suggestions made from students in the authors medicinal chemistry class Content provided to enhance the text includes a solutions manual PowerPoint slides for lecture outlines and especially for the earlier chapters a selection of videos An accompanying website will be updated to include additional material 1 Journal Club exercises current journal articles with guiding questions for student analysis two per chapter 2 additional case studies 3 organic synthesis analysis selected syntheses both discovery and process will be discussed and 4 updates on current advances in the field of medicinal chemistry The book benefits a diverse audience including upper level undergraduates and graduates who are studying in the fields of medicinal chemistry and drug discovery as well as scientists working in the pharmaceutical industry

Merrill Chemistry Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998 *Organic Synthesis* Michael Smith, 2011-07-12 A reactions oriented course is a staple of most graduate organic programs and synthesis is taught either as a part of that course or as a special topic Ideally the incoming student is an organic major who has a good working knowledge of basic reactions stereochemistry and conformational principles In fact however many often most of the students in a first year graduate level

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Brownstein, Mitchel Weiner, 1974 A guide to preparing for college entrance examinations with emphasis on study programs for the verbal mathematics and standard written English parts of the SAT Includes practice tests **Introduction to General, Organic, and Biochemistry** Morris Hein, Scott Pattison, Susan Arena, Leo R. Best, 2014-01-15 The most comprehensive book available on the subject Introduction to General Organic and Biochemistry 11th Edition continues its tradition of fostering the development of problem solving skills featuring numerous examples and coverage of current applications Skillfully anticipating areas of difficulty and pacing the material accordingly this readable work provides clear and logical explanations of chemical concepts as well as the right mix of general chemistry organic chemistry and biochemistry An emphasis on real world topics lets readers clearly see how the chemistry will apply to their career

Introduction to Modern Chemistry: Student Manual Eugene Meyer, 1979 **Breakthroughs in Science Skills**

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