

CHEM 121: Final Exam Study Guide

Chapter 1

- Know the Scientific method
- Know the definitions for hypothesis, scientific law, and scientific theory.

Chapter 2

- Length, mass, weight, volume
 - Know $1\text{ cm}^3=1\text{ mL}$ and $1\text{ dm}^3=1\text{ L}$
- Significant figures and Scientific notation
 - Rounding, in addition or subtraction, in multiplication or division
 - Keep as many sig figs until final answer
- Scientific notation
- Metric system
 - Know the metric prefixes: kilo (k), deci (d), centi (c), milli (m), and micro (μ)
 - Be able to perform metric-metric conversions using these prefixes.
- Use the metric-English conversions provided ($1\text{ in.}=2.54\text{ cm}$; $1\text{ lb}=453.6\text{ g}$; $1\text{ qt}=946\text{ mL}$)
- Volume by calculation
 - $V_{\text{rectangular solid}} = \text{length} \times \text{width} \times \text{thickness}$
- Volume by displacement
- Density: $d = \frac{m}{V}$
 - Calculate density, mass, or volume
 - Identify what items sink or float given densities of liquids and solids.
- Temperature
 - Know the formulas for converting °F-to-°C or °C-to-°F and K-to-°C or °C-to-K
- Percentage: ratio of parts per 100 parts
 - Given amount of part and whole, calculate %
 - Use a given % to solve for part or whole

Chapter 3

- Know that matter is studied at the macroscopic, microscopic, particulate (molecular) levels
- Physical states of matter
 - Determine physical state of substances (solids, liquids, gases) given descriptions of volume, shape, particles moving, etc.
- Classify properties and changes as physical or chemical
 - Know terms for changes of state:
 - Melting, freezing, vaporizing, condensation, sublimation, deposition
- Classification of matter
 - Given examples, determine which are elements, compounds, or mixtures
 - Given molecular-level images, determine which are elements, compounds, or mixtures and solids, liquids, or gases
 - Distinguish between homogeneous and heterogeneous mixtures
- Chemical reaction:
 - reactants: starting materials
 - products: substances produced in reaction

Chemistry 121 Final Exam

Arihant Experts



Chemistry 121 Final Exam:

United States Air Force Academy United States Air Force Academy, 1968 **Annual Catalog - United States Air Force Academy** United States Air Force Academy, 1971 Annual Catalogue United States Air Force Academy, 1980

Final Exam Review: Arithmetic A. A. Frempong, Arithmetic covers Basic Definitions Terminology and Types of Numbers Writing Whole Numbers Using Numerals and Words Basic Operations and Properties Order of Operations and Evaluation of Arithmetic Expressions Rounding off Whole Numbers and Decimals Estimation Prime Numbers Divisibility Rules Prime Factorization Least Common Multiple LCM Operations on Fractions and Mixed Numbers Addition and Subtraction of Fractions Comparison of Fractions and Subtraction of Mixed Numbers Multiplication and Division of Fractions and Mixed Numbers Operations on Decimals Comparison of Decimals Complex Decimals Dividing Decimals Converting Fractions to Decimals Ratio and Proportion Proportion Problems Percent % and Calculations Involving Percent Averages Profit and Loss Areas and Perimeters Bar Line and Circle Pie Graphs Scientific Notation Measurements **Final Exam Review:**

Elementary Algebra A. A. Frempong, Elementary Algebra covers Signed Number and Real Number Operations Order of Operations and Evaluation of Expressions Exponential Notation and Rules of Exponents Polynomial addition subtraction multiplication and division Solving First Degree Equations Word Problems Ratio and Proportion Factoring Polynomials Solving quadratic equations by factoring Graphs Slopes Intercepts and Equations of Straight Lines Solving Systems of Linear Equations and Word Problems Radicals square roots addition Pythagorean Theorem and Applications Areas and Perimeters Algebraic Fractions reduction multiplication division Solving Linear inequalities *Telangana EAMCET Engineering (2021-2015) Solved Papers For 2022 Exam* Arihant Experts, 2019-09-30 Engineering Agricultural and Medical Common Entrance Test EAMCET is an entrance examination conducted in some Engineering and Medical Colleges by Jawaharlal Nehru Technological University every year The new edition of Arihant s Telangana EAMCET Engineering 5 Years Solved Papers 2019 2015 has been prepared as per the latest question papers of the examination This book provides the best study material to the candidates who were preparing for this examination It gives the complete coverage to the syllabus by providing the last 5 years question papers from 2019 to 2015 Online coverage of 2019 2018 Papers and web links are provided for EAMCET Solved Papers 2014 2001 so that students can download it and study from anywhere at any point of time Moreover solution of each question is well explained with details which helps the candidates to understand better Thorough practice done from this book ensures good ranking and selection in the top colleges and institutions TABLE OF CONTENT AP EAMCET Solved Papers 2019 2015 Shift 1 2 EAMCET Solved Papers 2014 2001 Weblinks *Andhra Pradesh EAPCET Engineering (2021-2001) Solved Papers For 2022 Exam* Arihant Experts, 2019-09-30 Engineering Agricultural and Medical Common Entrance Test EAMCET is an entrance examination conducted in some Engineering and Medical Colleges by Jawaharlal Nehru Technological University every year The new edition of Arihant s Andhra Pradesh EAMCET Engineering

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