

Practice Test #21: Nuclear Chemistry

1. Of the following processes, which one does not change the atomic number?

- A) alpha emission ${}^x_A \rightarrow {}^{x-4}_{y-2}B + {}^4_2\alpha$
- B) beta emission ${}^x_A \rightarrow {}^{x+1}_yB + {}^0_{-1}\beta$
- C) electron capture ${}^x_A + {}^0_{-1}e(\text{orbital electron}) \rightarrow {}^{x-1}_yB$
- D) gamma emission ${}^x_A^* \rightarrow {}^x_A + {}^0_0\gamma$ (only this nuclear reaction does not change the atomic number)
- E) positron emission ${}^x_A \rightarrow {}^{x-1}_yB + {}^0_{+1}e$

2. In balancing the nuclear reaction below, the identity of element "E" is determined from its...



- A) atomic weight.
- B) mass number.
- C) atomic number.
- D) number of neutrons.
- E) number of electrons.

3. The largest number of stable nuclei have an _____ number of protons and an _____ number of neutrons.

- A) even, even
- B) odd, odd
- C) even, odd
- D) odd, even

4. The reaction below is an example of _____ decay.



- A) alpha
- B) beta
- C) gamma
- D) positron

Study Nuclear Chemistry Answer Key

Daniel C. Tofan



Study Nuclear Chemistry Answer Key:

General Chemistry Workbook Daniel C. Tofan, 2010-07-28 This workbook is a comprehensive collection of solved exercises and problems typical to AP introductory and general chemistry courses as well as blank worksheets containing further practice problems and questions It contains a total of 197 learning objectives grouped in 28 lessons and covering the vast majority of the types of problems that a student will encounter in a typical one year chemistry course It also contains a fully solved 50 question practice test which gives students a good idea of what they might expect on an actual final exam covering the entire material

Chemistry, Student Study Guide John A. Olmsted, Gregory M. Williams, 2002-01-04 This third edition continues to innovate by providing students with an integrated and modern approach to the subject The text emphasizes the modern tools of chemistry while incorporating historical evidence and its unique molecular quantitative emphasis is further reinforced by an integrated media package developed by the authors Also of benefit is the just in time presentation of key content only providing details once they are needed While key topics and analytical techniques have been updated there is now an additional third chapter on chemical equilibrium The authors have also developed an expanded and more integrated problem solving emphasis that now incorporates a 4 step strategy throughout complete with text icons The whole is backed by a range of supplements including a new illustration program a tutorial CD interactive learningware an extensive Web CT component an instructor's resource CD and a solution CD

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General Science for Competitive Exams - SSC/ Banking/ Railways/ Defense/ Insurance Disha Experts, 2017-08-01 The book General Sciences for Competitive Exams contains specific topics in Science which form a part of most of the Competitive Exams The book contains to the point theory followed by an exercise with solutions The book covers a lot of questions from the past competitive exams The book is a MUST for all SSC Banking Railways Defense Insurance Exam aspirants

Guide to RRB Assistant Loco Pilot (ALP) Stage I & II Exam with Previous Year Questions - 3rd Edition | Indian Railway Recruitment Board Disha Experts, The updated and revised 3rd edition of the book Guide to RRB Assistant Loco Pilot ALP Exam Stage I II covers

Comprehensive Sections on General Awareness Arithmetic General Intelligence Reasoning and General Science Technical Ability The General Science Technical Ability section has been divided into Physics Chemistry and Biology The book provides thoroughly updated Current Affairs section 1 Previous year Solved Paper of 2013 2014 2018 each Detailed theory along with practice questions and shortcuts to solve problems Exhaustive question bank at the end of each chapter in the form of Exercise Solutions to the Exercise have been provided at the end of each chapter

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Guide to Indian Railways (RRB) Assistant Loco Pilot Exam 2018 Stage I & II - 2nd Edition Disha Experts, 2019-10-10 The book Guide to Indian Railways RRB Assistant Loco Pilot ALP Exam 2018 Stage I covers 1 Comprehensive Sections on General Awareness Arithmetic General Intelligence 3 Detailed theory along with solved examples and shortcuts to solve problems 4 Exhaustive question bank at the end of each chapter in the form of Exercise Solutions to the Exercise have been provided at the end of each chapter 5 The General Science Technical Ability section has been divided into Physics Chemistry and Biology 6 The book provides thoroughly updated Current Affairs section

Journal of Research of the National Bureau of Standards United States. National Bureau of Standards, 1968

Guide to Indian Railways (RRB) Assistant Loco Pilot Exam 2014 Disha Experts, 2017-09-01 Guide to Indian Railways Assistant Loco Pilot Exam 2014 The book Guide to Indian Railways Assistant Loco Pilot Exam 2014 has been written exclusively for the Assistant Loco Pilot Exam strictly according to the revised exam pattern The Salient Features of the Book

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Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction

Michigan Test for Teacher Certification Study Guide, 2001

Energy Research Abstracts, 1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes

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Engineering News ,1963 El-Hi Textbooks in Print ,1984 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration,1976-10 *Hands-On Chemistry Activities with Real-Life Applications* Norman Herr,James Cunningham,1999-01-13 This comprehensive collection of over 300 intriguing investigations including demonstrations labs and other activities uses everyday examples to make chemistry concepts easy to understand It is part of the two volume PHYSICAL SCIENCE CURRICULUM LIBRARY which consists of Hands On Physics Activities With Real Life Applications and Hands On Chemistry Activities With Real Life Applications

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