Nuclear Chemistry – Alpha, Beta, and Gamma Decay Practice

Identify the following examples as alpha, beta, or gamma decay.

1.
$$^{233}_{92}U \rightarrow ^{4}_{2}He + ^{229}_{90}Th _alpha_$$

4.
$$^{202}_{81}\text{TI} \rightarrow ^{202}_{81}\text{TI} + ^{0}_{0}\text{Y}$$
 gamma

2.
$$^{99}_{43}$$
Tc $\rightarrow ^{0}_{-1}$ e + $^{99}_{44}$ Ru beta

s.
$${}^{125}_{53}I \rightarrow {}^{0}_{0} \Upsilon + {}^{125}_{53}I$$
 gamma

3.
$$^{175}_{78}$$
 Pt $\rightarrow ^{171}_{76}$ Os + $^{4}_{2}$ He _alpha_

6.
$${}^{82}_{35}Br \rightarrow {}^{82}_{36}Kr + {}^{0}_{-1}e$$
 __beta___

Alpha Decay: Write the alpha decay equations for the following nuclides. Example: ${}^{208}_{84}$ Po $\rightarrow {}^{4}_{2}$ He ${}^{204}_{82}$ Pb

Example:
$${}^{208}_{84}$$
 Po $\rightarrow {}^{4}_{2}$ He + ${}^{204}_{82}$ Pb

7.
$$^{256}_{103}$$
Lr $\rightarrow ^{4}_{2}$ He + $^{252}_{101}$ Md

s.
$$^{231}_{91}$$
 Pa $\rightarrow ^{4}_{2}$ He + $^{227}_{89}$ Ac

Beta Decay: Write the beta decay equations for the following nuclides.

Example:
$${}^{14}_{6}C \rightarrow {}^{14}_{7}N + {}^{0}_{-1}e$$

11.
$$^{24}_{11}$$
 Na $\rightarrow ^{24}_{8}$ O + $^{0}_{-1}$ e

13.
$$^{247}_{95}$$
 Am $\rightarrow ^{247}_{96}$ Cm + $^{0}_{-1}$ e

12.
$$^{201}_{79}$$
 Au $\rightarrow ^{201}_{80}$ Hg + $^{0}_{-1}$ e

14.
$$^{90}_{38}$$
Sr $\rightarrow ^{90}_{39}$ Y + $^{0}_{19}$ e

Balancing Decay Reactions: Fill in the blank in each of the following decay reactions with the correct decay particle or decayed nucleus that will balance the reaction, also state whether it is alpha or beta decay

15.
$$^{184}_{74}$$
 W $\rightarrow ^{4}_{2}$ He + $^{180}_{72}$ Hf

20.
$$^{60}_{27}W \rightarrow ^{0}_{-1}e + ^{60}_{28}Ni$$

Nuclear Chemistry Practice Sheet Answer Key

Lingsheng Yao

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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 guestions 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 guestion practice test which gives students a good idea of what they might expect on an actual final exam An Introduction to Chemistry Michael Mosher, Paul Kelter, 2023-03-18 This textbook is covering the entire material written to thoroughly cover the topic of introductory chemistry in detail with specific references to examples of topics in common or everyday life It provides a major overview of topics typically found in first year chemistry courses in the USA The textbook is written in a conversational guestion based format with a well defined problem solving strategy and presented in a way to encourage readers to think like a chemist and to think outside of the box Numerous examples are presented in every chapter to aid students and provide helpful self learning tools The topics are arranged throughout the textbook in a traditional approach to the subject with the primary audience being undergraduate students and advanced high school students of chemistry Nuclear Power David Elliott, 2017-05-02 This book looks at the early history of nuclear power at what happened next and at its longer term prospects The main question is can nuclear power overcome the problems that have emerged It was once touted as the ultimate energy source freeing mankind from reliance on dirty expensive fossil energy Sixty years on nuclear only supplies around 11 5% of global energy and is being challenged by cheaper energy options While the costs of renewable sources like wind and solar are falling rapidly nuclear costs have remained stubbornly high Its development has also been slowed by a range of other problems including a spate of major accidents security concerns and the as yet unresolved issue of what to do with the wastes that it produces In response a new generation of nuclear reactors is being developed many of them actually revised versions of the ideas first looked at in the earlier phase Will this new generation of reactors bring nuclear energy to the forefront of energy production in the future **Publications** of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),1970

Publications United States. National Bureau of Standards,1969 Oswaal NCERT Exemplar (Problems - Solutions)

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Opportunities in Chemistry Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Janice A. Coonrod, George C. Pimentel, 1987-02-01 Experts agree that the nation would benefit if more young people turned on to the sciences This book is designed as a tool to do just that It is based on Opportunities in Chemistry a National Research Council publication that incorporated the contributions of 350 researchers working at the frontiers of the field Chemistry educators Janice A Coonrod and the late George C Pimentel revised the material to capture the interest of today s student A broad and highly readable survey the volume explores The role of chemistry in attacking major problems in environmental quality food production energy health and other important areas Opportunities at the leading edge of chemistry in controlling basic chemical reactions and working at the molecular level Working with lasers molecular beams and other sophisticated measurement techniques and tools available to chemistry researchers The book concludes with a discussion of chemistry s role in society s risk benefit decisions and a review of career and educational opportunities The Journal of Physical Chemistry: Volume 67, Number 1 January 22, 1963 W. Albert Noyes, Jr., 1963

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