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

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R Barnett

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<u>CliffsNotes AP Chemistry</u> Bobrow Test Preparation Services,2009-02-09 The book itself contains chapter length subject reviews on every subject tested on the AP Chemistry exam as well as both sample multiple choice and free response questions at each chapter s end Two full length practice tests with detailed answer explanations are included in the book

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