

Practice Test #21: Nuclear Chemistry

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

- A) alpha emission ${}^z_A X \rightarrow {}^{z-4}_A Y + {}^4_2\alpha$
- B) beta emission ${}^z_A X \rightarrow {}^{z+1}_A Y + {}^0_{-1}\beta$
- C) electron capture ${}^z_A X + {}^0_{-1}e(\text{orbital electron}) \rightarrow {}^{z-1}_A Y$
- D) gamma emission ${}^z_A X^* \rightarrow {}^z_A X + {}^0_0\gamma$ (only this nuclear reaction does not change the atomic number)
- E) positron emission ${}^z_A X \rightarrow {}^{z-1}_A Y + {}^0_1e$

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

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