

Chapter 25 Nuclear Chemistry Practice Test

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- ____ 1. What does the 4 in ${}^4_2\text{He}$ represent?
- the mass number
 - the atomic number
 - the number of protons
 - the number of neutrons
- ____ 2. What does the 101 in ${}^{256}_{101}\text{Md}$ represent?
- the mass number
 - the atomic number
 - the nuclide number
 - the number of neutrons
- ____ 3. Balance the following equation: ${}^{226}_{88}\text{Rn} \rightarrow {}^{226}_{86}\text{Rn} + \text{_____}$
- ${}^4_2\text{He}$
 - 1_0e
 - ${}^1_1\text{H}$
 - ${}^0_{-1}e$
- ____ 4. Balance the following equation: ${}^{239}_{93}\text{Np} \rightarrow \text{_____} + {}^0_{-1}e$
- ${}^{239}_{90}\text{Th}$
 - ${}^{239}_{92}\text{U}$
 - ${}^{239}_{94}\text{Pu}$
 - ${}^{239}_{94}\text{Pa}$
- ____ 5. The spontaneous disintegration of a nucleus into a slightly lighter and more stable nucleus, accompanied by emission of particles, electromagnetic radiation, or both, is
- nuclear fusion.
 - nuclear radiation.
 - radioactive decay.
 - nuclear fission.
- ____ 6. Which of the following forms of radiation has the greatest penetrating power?
- alpha particles
 - beta particles
 - gamma rays
 - positrons
- ____ 7. Alpha particles are
- electrons.
 - helium nuclei.
 - electromagnetic waves.
 - neutrons.
- ____ 8. Beta particles are
- electrons.
 - helium nuclei.
 - electromagnetic waves.
 - neutrons.
- ____ 9. Which of the illustrations below represents a fission reaction?

Section 25 Nuclear Chemistry Study Guide Answers

JG Myers



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