

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?
a. the mass number
b. the atomic number
c. the number of protons
d. the number of neutrons
- _____ 2. What does the 101 in ${}^{256}_{101}\text{Md}$ represent?
a. the mass number
b. the atomic number
c. the nuclide number
d. the number of neutrons
- _____ 3. Balance the following equation: ${}^{226}_{88}\text{Rn} \rightarrow {}^{226}_{86}\text{Rn} + \text{_____}$
a. ${}^4_2\text{He}$
b. ${}^1_0e^-$
c. ${}^1_1\text{H}$
d. ${}^0_{-1}e^-$
- _____ 4. Balance the following equation: ${}^{239}_{93}\text{Np} \rightarrow \text{_____} + {}^0_{-1}e^-$
a. ${}^{239}_{90}\text{Th}$
b. ${}^{239}_{92}\text{U}$
c. ${}^{239}_{94}\text{Pu}$
d. ${}^{238}_{94}\text{Pu}$
- _____ 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
a. nuclear fusion.
b. nuclear radiation.
c. radioactive decay.
d. nuclear fission.
- _____ 6. Which of the following forms of radiation has the greatest penetrating power?
a. alpha particles
b. beta particles
c. gamma rays
d. positrons
- _____ 7. Alpha particles are
a. electrons.
b. helium nuclei.
c. electromagnetic waves.
d. neutrons.
- _____ 8. Beta particles are
a. electrons.
b. helium nuclei.
c. electromagnetic waves.
d. neutrons.
- _____ 9. Which of the illustrations below represents a fission reaction?

Chapter 25 Nuclear Chemistry Practice Problems

Answer Key

J Ma



Chapter 25 Nuclear Chemistry Practice Problems Answer Key:

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