

## 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?

# Chapter 25 Nuclear Chemistry Practice Problems

## Answer Key

**John W. Hill**



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