

## 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

**Jessica J Manson**



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