

CHAPTER 24 NUCLEAR

# Nuclear Chemistry

## SECTION 1

Write a balanced nuclear equation for each reaction in the space provided.

1. \_\_\_\_\_ How many alpha particles are emitted in the decay of  $^{238}\text{U}$  to  $^{14}\text{Po}$ ?  
 a. 6  
 b. 8  
 c. 10  
 d. 12
2. \_\_\_\_\_ The  $\beta$ -decay of  $^{14}\text{C}$  produces  $^{14}\text{N}$ .  
 a.  $^{14}\text{C}$  is converted to  $^{14}\text{N}$ .  
 b.  $^{14}\text{C}$  is converted to  $^{13}\text{C}$ .  
 c.  $^{14}\text{C}$  is converted to  $^{15}\text{C}$ .  
 d.  $^{14}\text{C}$  is converted to  $^{15}\text{N}$ .
3. \_\_\_\_\_ The number of  $\alpha$  particles emitted in the  $\alpha$ -decay of  $^{226}\text{Ra}$  is \_\_\_\_\_.  
 a. 4  
 b. 5  
 c. 6  
 d. 7
4. \_\_\_\_\_  $^{238}\text{U}$  decays to  $^{206}\text{Pb}$  by emitting \_\_\_\_\_  $\alpha$  particles.  
 a. 8  
 b. 6  
 c. 4  
 d. 2
5. \_\_\_\_\_ The number of  $\alpha$  particles emitted in the  $\alpha$ -decay of  $^{238}\text{U}$  is \_\_\_\_\_.  
 a. 8  
 b. 6  
 c. 4  
 d. 2
6. \_\_\_\_\_ The number of  $\alpha$  particles emitted in the  $\alpha$ -decay of  $^{238}\text{U}$  is \_\_\_\_\_.  
 a. 8  
 b. 6  
 c. 4  
 d. 2
7. \_\_\_\_\_ The number of  $\alpha$  particles emitted in the  $\alpha$ -decay of  $^{238}\text{U}$  is \_\_\_\_\_.  
 a. 8  
 b. 6  
 c. 4  
 d. 2
8. \_\_\_\_\_ The number of  $\alpha$  particles emitted in the  $\alpha$ -decay of  $^{238}\text{U}$  is \_\_\_\_\_.  
 a. 8  
 b. 6  
 c. 4  
 d. 2
9. \_\_\_\_\_ The number of  $\alpha$  particles emitted in the  $\alpha$ -decay of  $^{238}\text{U}$  is \_\_\_\_\_.  
 a. 8  
 b. 6  
 c. 4  
 d. 2
10. \_\_\_\_\_ The number of  $\alpha$  particles emitted in the  $\alpha$ -decay of  $^{238}\text{U}$  is \_\_\_\_\_.  
 a. 8  
 b. 6  
 c. 4  
 d. 2
11. \_\_\_\_\_ The number of  $\alpha$  particles emitted in the  $\alpha$ -decay of  $^{238}\text{U}$  is \_\_\_\_\_.  
 a. 8  
 b. 6  
 c. 4  
 d. 2
12. \_\_\_\_\_ The number of  $\alpha$  particles emitted in the  $\alpha$ -decay of  $^{238}\text{U}$  is \_\_\_\_\_.  
 a. 8  
 b. 6  
 c. 4  
 d. 2
13. \_\_\_\_\_ The number of  $\alpha$  particles emitted in the  $\alpha$ -decay of  $^{238}\text{U}$  is \_\_\_\_\_.  
 a. 8  
 b. 6  
 c. 4  
 d. 2
14. \_\_\_\_\_ The number of  $\alpha$  particles emitted in the  $\alpha$ -decay of  $^{238}\text{U}$  is \_\_\_\_\_.  
 a. 8  
 b. 6  
 c. 4  
 d. 2
15. \_\_\_\_\_ The number of  $\alpha$  particles emitted in the  $\alpha$ -decay of  $^{238}\text{U}$  is \_\_\_\_\_.  
 a. 8  
 b. 6  
 c. 4  
 d. 2
16. \_\_\_\_\_ The number of  $\alpha$  particles emitted in the  $\alpha$ -decay of  $^{238}\text{U}$  is \_\_\_\_\_.  
 a. 8  
 b. 6  
 c. 4  
 d. 2
17. \_\_\_\_\_ The number of  $\alpha$  particles emitted in the  $\alpha$ -decay of  $^{238}\text{U}$  is \_\_\_\_\_.  
 a. 8  
 b. 6  
 c. 4  
 d. 2
18. \_\_\_\_\_ The number of  $\alpha$  particles emitted in the  $\alpha$ -decay of  $^{238}\text{U}$  is \_\_\_\_\_.  
 a. 8  
 b. 6  
 c. 4  
 d. 2
19. \_\_\_\_\_ The number of  $\alpha$  particles emitted in the  $\alpha$ -decay of  $^{238}\text{U}$  is \_\_\_\_\_.  
 a. 8  
 b. 6  
 c. 4  
 d. 2
20. \_\_\_\_\_ The number of  $\alpha$  particles emitted in the  $\alpha$ -decay of  $^{238}\text{U}$  is \_\_\_\_\_.  
 a. 8  
 b. 6  
 c. 4  
 d. 2

# Chapter 21 Nuclear Chemistry Section 3 Answers

**Ralph J. Fessenden, Joan S. Fessenden**

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strategies Fundamentals of General, Organic, and Biological Chemistry Susan McMurry, 2006-07 The Study Guide and Full Solutions Manual explain in detail how the answers in text and end of chapter problems are obtained They also contain chapter summaries study hints and self tests for each chapter **Chemistry, an Experimental Science** Chemical Education Material Study, 1963

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