

Name _____

Date _____

Unit 3: Nuclear Chemistry - Intensive Review

Nuclear Stability

1. Which list of nuclear emissions is arranged in order from the least penetrating power to the greatest penetrating power?

- (1) alpha particle, beta particle, gamma ray
- (2) alpha particle, gamma ray, beta particle
- (3) gamma ray, beta particle, alpha particle
- (4) beta particle, alpha particle, gamma ray

2. An unstable nucleus loses the most mass if the nucleus emits

- (1) an alpha particle
- (2) a positron
- (3) a beta particle
- (4) a gamma ray

11. Which two radioisotopes have the same decay mode?

- (1) ^{40}Ca and ^{59}Fe
- (2) ^{40}K and ^{40}Ca
- (3) ^{40}K and ^{40}Ar
- (4) ^{59}Fe and ^{59}Ni

12. Which isotope has a decay mode of less than one second?

- (1) $^{40}\text{Ca}-37$
- (2) ^{41}K
- (3) $^{40}\text{K}-37$
- (4) $^{44}\text{K}-38$

13. Given the nuclear equation



What nuclear particle is represented by X?

14. Write the nuclear equations, based on the radioisotopes given.

a. Complete the nuclear equation below for the radioactive decay of Rn-222.

12 3 Chemistry Review Answer Key

Judd E. Hollander



12 3 Chemistry Review Answer Key:

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