- Given the nuclear equation: ¹⁴7N + X → ¹⁶3 O + ²1H
 What is particle X?
- (A) an alpha particle
 (C) a deuteron
 (D) a triton
- The nucleus of a radium-226 atom is unstable, which causes the nucleus to spontaneously
 - A) absorb electrons B) absorb protons C) decay D) oxidize
- Which group of nuclear emissions is listed in order of increasing charge?
 - A) alpha particle, beta particle, gamma radiation -
 - B) gamma radiation, alpha particle, beta particle -
 - positron, alpha particle, neutron
 - D) neutron, positron, alpha particle
- 4. Which list of nuclear emissions is arranged in order from the *least* penetrating power to the greatest penetrating power?
 - A) alpha particle, beta particle, gamma ray
 - B) alpha particle, gamma ray, beta particle
 - C) gamma ray, beta particle, alpha particle
 - D) beta particle, alpha particle, gamma ray
- Base your answer to the following question on Given the nuclear equation:

$$^{1}iH + X \rightarrow ^{6}iLi + ^{4}He$$

The particle represented by X is

- A) %4Li B) %4Be C) 105Be D) 106C
- 6. Positrons are spontaneously emitted from the nuclei of
 - A) potassium-37
- B) radium-226
- C) nitrogen-16 D) thorium-232
- What is the decay mode of ³⁷K?
- A) B B) B+ C) 7 D) a
- 8. Which equation represents positron decay?
 - A) 27 37 Rb \rightarrow 0 -1 e + 27 38 Sr
 - B) 277 92 U \rightarrow 223 90 Th + 4 2 He
 - © $^{27}_{13}Al + ^{4}_{2}He \rightarrow ^{30}_{15}P + ^{1}_{0}n$
 - D) 116C -0+1e+115B

- As ¹⁴C decays to ¹⁴N, the number of protons in the nucleus
 - A) decreases

- B) increases
- C) remains the same
- 10. Atoms of I-131 spontaneously decay when the
 - A) stable nuclei emit alpha particles
 - B) stable nuclei emit beta particles
 - C) unstable nuclei emit alpha particles
 - D) unstable nuclei emit beta particles
- 11. Which statement best describes gamma radiation?
 - A) It has a mass of 1 and a charge of 1.
 - B) It has a mass of 0 and a charge of -1.
 - C) It has a mass of 0 and a charge of 0.
 - D) It has a mass of 4 and a charge of +2.
- 12. Which nuclear decay emission consists of energy, only?
 - A) alpha particle
- B) beta particle
- C) gamma radiation
- D) positron
- 13. Which kind of nuclear radiation has high energy and no mass?
 - A) alpha

B) beta

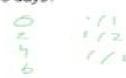
C) gamma

- D) neutron
- 14. The half-life of a radioactive isotope is 20.0 minutes. What is the total amount of a 1.00-gram sample of this isotope remaining after 1.00 hour?
 - A) 0.500 g

B) 0.333 g

C) 0.250 g

- D) 0.125 g
- 15 A radioactive element has a half-life of 2 days. Which fraction represents the amount of an original sample of this element remaining after 6 days?
 - 70 J
 - B) $\frac{1}{2}$
 - \bigcirc $\frac{1}{3}$
 - D) <u>1</u>



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Katrin Zwirglmaier

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