

Chemistry Final Exam Question and Answer

which type of reaction does this diagram represent?

Answer: nuclear fusion because atomic nuclei combine to form heavier nucleus.

$4/2 \text{ He} + 4/2 \text{ He} \rightarrow ?$

if this equation was completed, which statement would it best support?

Answer: nuclear fusion produces elements that are heavier than helium.

a fusion reaction takes place between carbon and another element. neutrons are released, and a different element is formed. the different element is?

Answer: heavier than helium.

which best describes a chain reaction associated with a nuclear reaction?

Answer: neutrons released during a fission reaction causes other nuclei to split.

which radioisotope is used as a tracer in nuclear scanning?

Answer: technetium-99m

uranium-232 has a half life of 68.8 years. after 344.0 years how much uranium will remain from a 100.0-g sample?

Answer: 3.13 g

a sample contains 16.75 g of radioisotopes U-236 and 50.25 g of its daughter isotope, Th-232. how long did it take for decay to take place if one half life of U-236 is 23 million years?

Answer: 46 million years

an article about half lives describes a daughter isotope. what is a daughter isotope?

Answer: the isotope that forms from the radioactive decay of a less stable isotope

a radioactive nuclide has 53 protons and 78 neutrons. which is the symbol of this nuclide?

Answer: $^{131}_{53}\text{I}$

which represents a balanced nuclear equation?

Answer: $^{24}_{11}\text{Na} \rightarrow ^{24}_{12}\text{Mg} + 0/-1\text{e}$

consider the nuclear equation below.

$^{239}_{94}\text{Pu} \rightarrow \text{X} + ^{4}_{2}\text{He}$

what is X?

Answer: $^{235}_{92}\text{U}$

the symbol for a radioactive nuclide is $^{210}_{84}\text{Po}$. which statement is correct?

Answer: the number of neutrons present in the nucleus of each atom is 126.

examine the nuclear reaction $1/1\text{H} + 1/0\text{n} \rightarrow 2/1\text{H}$. why is this classified as a nuclear reaction rather than a chemical reaction?

Answer: a change has occurred in a nucleus.

Introductory Chemistry Final Exam Questions And Answers

Daniel C. Tofan



Introductory Chemistry Final Exam Questions And Answers:

General Chemistry Workbook Daniel C. Tofan, 2010-07-28 This workbook is a comprehensive collection of solved exercises and problems typical to AP introductory and general chemistry courses as well as blank worksheets containing further practice problems and questions It contains a total of 197 learning objectives grouped in 28 lessons and covering the vast majority of the types of problems that a student will encounter in a typical one year chemistry course It also contains a fully solved 50 question practice test which gives students a good idea of what they might expect on an actual final exam covering the entire material

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