NOVA SCOTIA PHYSICS 12 · UNIT E · 5 QUESTIONS

Modern Physics and Radioactivity — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A sample starts with 100 grams of a radioactive isotope. After 4 half lives the mass remaining, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A sample starts with 64 grams of a radioactive isotope. After 2 half lives the mass remaining, in grams, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A sample decays for 40 years. Its half life is 10 years. The number of half lives elapsed is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A sample decays for 50 years. Its half life is 25 years. The number of half lives elapsed is**

ANSWER

Understand It with Pulse | Flag a mistake

5 **Shiny metal coil spring stretches out horizontally on a light wooden table, coils pulled apart, large in frame. Light photons of energy 7 electronvolts strike a metal with work function 3 electronvolts. The maximum kinetic energy of emitted electrons, in electronvolts, is**



ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 6.25
2. 16
3. 4
4. 2
5. 4

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