NOVA SCOTIA ADVANCED 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 has activity 1000 becquerels. After 2 half lives its activity, in becquerels, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A sample has activity 640 becquerels. After 4 half lives its activity, in becquerels, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A remaining painted section of the Berlin Wall in Berlin has colorful murals on the concrete. After 4 half lives the percent of undecayed nuclei remaining is**



ANSWER _____

Understand It with Pulse | Flag a mistake

4 **After 5 half lives the percent of undecayed nuclei remaining is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5

Light of frequency 300 hertz has photon energy 2.5 electronvolts. Light of double the frequency has photon energy, in electronvolts, of

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 250
2. 40
3. 6.25
4. 3.125
5. 5

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