SASKATCHEWAN PHYSICS 30 · UNIT A

Modern Physics — Practice Test

Saskatchewan Physics 30 • 10 questions

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 **Light has frequency 5×10^{14} Hz . Using Planck constant 6.63×10^{-34} J s , the photon energy is about ____ $\times 10^{-19}$ J**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Light has frequency 4×10^{14} Hz . Using Planck constant 6.63×10^{-34} J s , the photon energy is about ____ $\times 10^{-19}$ J**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Light has frequency 6×10^{14} Hz . Using Planck constant 6.63×10^{-34} J s , the photon energy is about ____ $\times 10^{-19}$ J**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Light has frequency 3×10^{14} Hz . Using Planck constant 6.63×10^{-34} J s , the photon energy is about ____ $\times 10^{-19}$ J**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A sample starts at 200 g. After 2 half lives, the mass remaining, in grams, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A sample starts at 80 g. After 3 half lives, the mass remaining, in grams, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A sample starts at 128 g. After 4 half lives, the mass remaining, in grams, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A sample starts at 256 g. After 2 half lives, the mass remaining, in grams, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **Light has frequency 7×10^{14} Hz . Using Planck constant 6.63×10^{-34} J s , the photon energy is about _____ $\times 10^{-19}$ J**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Light has frequency 2×10^{14} Hz . Using Planck constant 6.63×10^{-34} J s , the photon energy is about _____ $\times 10^{-19}$ J**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	3.31	**5.**	50	**9.**	4.64
2.	2.65	**6.**	10	**10.**	1.33
3.	3.98	**7.**	8		
4.	1.99	**8.**	64		

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