NOVA SCOTIA PHYSICS 12 · UNIT C

Simple Harmonic Motion — Practice Test

Nova Scotia Physics 12 • 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 **An oscillator has period 4 seconds. Its frequency, in hertz, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **An oscillator has energy 25 joules. If its amplitude doubles, the new energy, in joules, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **An oscillator has energy 15 joules. If its amplitude doubles, the new energy, in joules, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **An oscillator completes 50 oscillations in 10 seconds. Its period, in seconds, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **An oscillator completes 4 oscillations in 20 seconds. Its period, in seconds, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **An oscillator completes 40 oscillations in 10 seconds. Its frequency, in hertz, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **An oscillator completes 25 oscillations in 5 seconds. Its frequency, in hertz, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The amplitude of an oscillation is the maximum**

A displacement from equilibrium

B speed

C period

D energy

Understand It with Pulse | Flag a mistake

9 **A spring with a larger spring constant oscillates with a**

A longer period

B shorter period

C larger amplitude

D smaller mass

Understand It with Pulse | Flag a mistake

10 **For small angles a pendulum period is independent of its**

A length

B gravity

C amplitude

D string

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 0.25
2. 100
3. 60
4. 0.2
5. 5
6. 4
7. 5
8. A
9. B
10. C

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