NORTHWEST TERRITORIES PHYSICS 11 (MPH--11) · UNIT D · 10 QUESTIONS

Mechanical Waves — 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 **Sound travels at 340 m per s with a frequency of 85 Hz. The wavelength, in metres, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **When a sound source moves away from an observer, the observed frequency is**

A. lower

B. higher

C. unchanged

D. zero

Understand It with Pulse | Flag a mistake

3 **Sound travels at 340 m per s for 3 s. The distance covered, in metres, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **On a standing wave, an antinode is a point of**

A no displacement

B zero frequency

C zero wavelength

D maximum displacement

Understand It with Pulse | Flag a mistake

5 **A string 1.5 m long vibrates in its fundamental mode. The wavelength, in metres, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A sound with a larger amplitude is usually**

A quieter

B higher pitched

C louder

D lower pitched

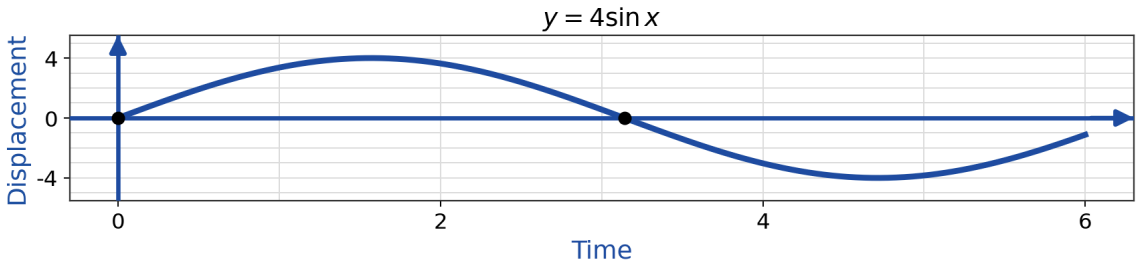
Understand It with Pulse | Flag a mistake

7 **A wave with a frequency of 12 Hz runs for 5 s. The number of waves produced is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The graph shows displacement against time for another oscillator. The amplitude, in the graph units, is**



- **A** 2
- **B** 4
- **C** 3
- **D** 5

Understand It with Pulse | Flag a mistake

9 **The speed of a wave in a given medium depends mainly on**

- **A** the properties of the medium
- **B** its amplitude
- **C** its frequency only
- **D** the observer

Understand It with Pulse | Flag a mistake

10 **A source makes 50 cycles in 25 s. The frequency, in hertz, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 4
2. A
3. 1020
4. D
5. 3
6. C
7. 60
8. B
9. A
10. 2

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