NEWFOUNDLAND AND LABRADOR PHYSICS 2204 · UNIT D · 10 QUESTIONS

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 **Two sounds of frequencies 500 Hz and 505 Hz are played together. The beat frequency, in hertz, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Recall the property. As a sound source approaches an observer, the observed pitch generally**

A decreases

B stays the same

C increases

D becomes zero

Understand It with Pulse | Flag a mistake

3 **Apply the property. Electromagnetic waves differ from sound waves because they**

- A need air to travel
- B are always longitudinal
- C travel slower than sound in air
- D can travel through a vacuum

Understand It with Pulse | Flag a mistake

4 **A source produces 20 waves in 4 s. Its frequency, in hertz, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A wave has frequency 10 Hz and wavelength 3 m. Its speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A wave has frequency 4 Hz. Its period, in seconds, is**

ANSWER _____

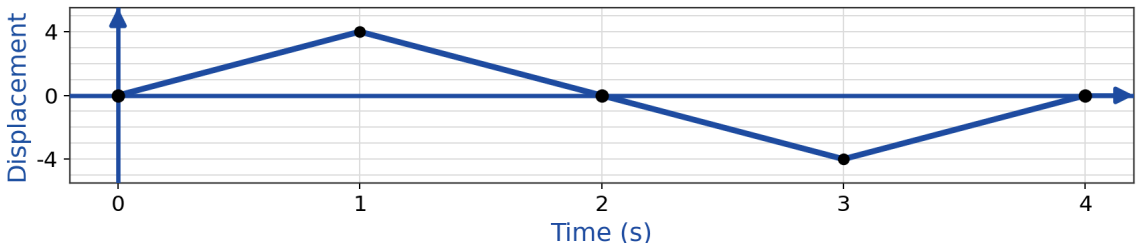
Understand It with Pulse | Flag a mistake

7 **A sound wave travels at 150 m per second with frequency 30 Hz. Its wavelength, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Apply the statement. The graph shows a wave. Its amplitude is**



A 4

B 2

C 8

D 1

Understand It with Pulse | Flag a mistake

9 **Consider the statement in general. The amplitude of a wave is**

A the distance between crests

B its maximum displacement from equilibrium

C the number of waves per second

D its speed

Understand It with Pulse | Flag a mistake

10 **Review the statement. The wavelength of a wave is**

A its maximum displacement

B the time for one wave

C the distance between two adjacent crests

D its frequency

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 5
2. C
3. D
4. 5
5. 30
6. 0.25
7. 5
8. A
9. B
10. C

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