PRINCE EDWARD ISLAND PHYSICS 12 · UNIT E · 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 **A wave has frequency 8 hertz and wavelength 5 metres. Its speed in metres per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Sound travels at 340 metres per second. A sound wave of frequency 170 hertz has wavelength in metres of**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Reflection is the bouncing of a wave off a**

A. source

B. receiver

C. surface

D. medium change only

Understand It with Pulse | Flag a mistake

4 **Refraction is the bending of a wave due to a change in**

- A source
- B speed in a new medium
- C amplitude
- D frequency

Understand It with Pulse | Flag a mistake

5 **Resonance occurs when a driving frequency matches a**

- A speed
- B natural frequency
- C wavelength
- D amplitude

Understand It with Pulse | Flag a mistake

6 **Sound is a**

A surface wave only

B electromagnetic wave

C longitudinal wave

D transverse wave

Understand It with Pulse | Flag a mistake

7 **The Doppler effect is a change in observed frequency due to**

A change in amplitude

B reflection

C relative motion of source and observer

D change in medium

Understand It with Pulse | Flag a mistake

8 **Wave speed equals**

A frequency × wavelength

B frequency ÷ wavelength

C period × wavelength

D amplitude × frequency

Understand It with Pulse | Flag a mistake

9 **A wave has frequency 9 hertz and wavelength 4 metres. Its speed in metres per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Sound travels at 340 metres per second. A sound wave of frequency 340 hertz has wavelength in metres of**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 40
2. 2
3. C
4. B
5. B
6. C
7. C
8. A
9. 36
10. 1

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