PRINCE EDWARD ISLAND PHYSICS 11 · UNIT D

Waves — Practice Test

Prince Edward Island Physics 11 • 25 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 **A wave has frequency 5 hertz and wavelength 4 metres. What is the wave speed in metres per second**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A wave has frequency 2 hertz. What is its period in seconds, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A wave has period 0.5 seconds. What is its frequency in hertz**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A wave travels at 20 metres per second with frequency 5 hertz. What is its wavelength in metres**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A longitudinal wave has vibrations parallel to the direction of**

A amplitude

B frequency

C wavelength

D wave travel

Understand It with Pulse | Flag a mistake

6 **A standing wave has points of no displacement called**

A antinodes

B crests

C nodes

D troughs

Understand It with Pulse | Flag a mistake

7 **A transverse wave has vibrations perpendicular to the direction of**

A amplitude

B frequency

C wave travel

D wavelength

Understand It with Pulse | Flag a mistake

8 **Amplitude measures the maximum displacement from the**

A crest

B trough

C equilibrium position

D wavelength

Understand It with Pulse | Flag a mistake

9 **Diffraction is the spreading of a wave when it passes through a**

A mirror

B gap or around an obstacle

C lens

D vacuum

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10 **Frequency equals 1 divided by**

A period

B wavelength

C amplitude

D speed

Understand It with Pulse | Flag a mistake

11 **Frequency is the number of waves passing a point per**

A second

B minute

C metre

D cycle only

Understand It with Pulse | Flag a mistake

12 **Higher frequency sound is perceived as a higher**

A loudness

B speed

C pitch

D amplitude

Understand It with Pulse | Flag a mistake

13 **In a vacuum, all electromagnetic waves travel at the same**

A frequency

B speed

C wavelength

D amplitude

Understand It with Pulse | Flag a mistake

14 **Interference occurs when two waves**

A reflect

B refract

C diffract only

D overlap

Understand It with Pulse | Flag a mistake

15 **Light waves are an example of**

A sound waves

B electromagnetic waves

C longitudinal waves

D water waves only

Understand It with Pulse | Flag a mistake

16 **Louder sound has a larger**

A frequency

B wavelength

C speed

D amplitude

Understand It with Pulse | Flag a mistake

17 **Period is the time for**

A one crest

B one trough

C half a wave

D one complete wave

Understand It with Pulse | Flag a mistake

18 **A wave has frequency 10 hertz and wavelength 3 metres. What is the wave speed in metres per second**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A wave has frequency 4 hertz. What is its period in seconds, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A wave has period 0.25 seconds. What is its frequency in hertz**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A wave travels at 30 metres per second with frequency 10 hertz. What is its wavelength in metres**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A wave has frequency 20 hertz and wavelength 2 metres. What is the wave speed in metres per second**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A wave has frequency 5 hertz. What is its period in seconds, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A wave has period 0.2 seconds. What is its frequency in hertz**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A wave travels at 100 metres per second with frequency 20 hertz. What is its wavelength in metres**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	20	**10.**	A	**19.**	0.25
2.	0.50	**11.**	A	**20.**	4.00
3.	2.00	**12.**	C	**21.**	3.00
4.	4.00	**13.**	B	**22.**	40
5.	D	**14.**	D	**23.**	0.20
6.	C	**15.**	B	**24.**	5.00
7.	C	**16.**	D	**25.**	5.00
8.	C	**17.**	D		
9.	B	**18.**	30		

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