PRINCE EDWARD ISLAND PHYSICS 12 · UNIT E

Waves — Practice Test

Prince Edward Island Physics 12 • 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 10 hertz and wavelength 2 metres. Its speed in metres per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A wave has speed 200 metres per second and frequency 50 hertz. Its wavelength in metres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A wave has speed 300 metres per second and wavelength 10 metres. Its frequency in hertz is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A wave travels 100 metres in 5 seconds. Its speed in metres per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A wave with period 0.2 seconds has frequency in hertz of**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A sound wave with frequency 500 hertz and wavelength 0.68 metres has speed in metres per second of**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A standing wave has points of no motion called**

A nodes

B antinodes

C crests

D troughs

Understand It with Pulse | Flag a mistake

8 **A wave with frequency 25 hertz has period in seconds as a decimal of**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **Diffraction is the spreading of a wave through a**

A gap or around an obstacle

B mirror

C lens only

D vacuum only

Understand It with Pulse | Flag a mistake

10 **Frequency is the reciprocal of**

A wavelength

B amplitude

C speed

D period

Understand It with Pulse | Flag a mistake

11 **In a longitudinal wave, particles vibrate**

A perpendicular to wave travel

B in circles only

C not at all

D parallel to wave travel

Understand It with Pulse | Flag a mistake

12 **In a transverse wave, particles vibrate**

A perpendicular to wave travel

B parallel to wave travel

C in circles only

D not at all

Understand It with Pulse | Flag a mistake

13 **Interference of two waves in phase gives**

A destructive interference

B refraction

C reflection

D constructive interference

Understand It with Pulse | Flag a mistake

14 **Light is a**

A water wave only

B transverse electromagnetic wave

C longitudinal wave

D sound wave

Understand It with Pulse | Flag a mistake

15 **Points of maximum motion in a standing wave are called**

- A nodes
- B crests only
- C troughs only
- D antinodes

Understand It with Pulse | Flag a mistake

16 **A wave has frequency 20 hertz and wavelength 3 metres. Its speed in metres per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A wave has speed 180 metres per second and frequency 60 hertz. Its wavelength in metres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A wave has speed 400 metres per second and wavelength 8 metres. Its frequency in hertz is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A wave travels 200 metres in 10 seconds. Its speed in metres per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A wave with period 0.25 seconds has frequency in hertz of**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **A wave has frequency 5 hertz and wavelength 4 metres. Its speed in metres per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A wave has speed 120 metres per second and frequency 40 hertz. Its wavelength in metres is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A wave has speed 150 metres per second and wavelength 5 metres. Its frequency in hertz is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A wave travels 60 metres in 3 seconds. Its speed in metres per second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A wave with period 0.5 seconds has frequency in hertz of**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	20	**10.**	D	**19.**	20
2.	4	**11.**	D	**20.**	4
3.	30	**12.**	A	**21.**	20
4.	20	**13.**	D	**22.**	3
5.	5	**14.**	B	**23.**	30
6.	340	**15.**	D	**24.**	20
7.	A	**16.**	60	**25.**	2
8.	0.04	**17.**	3		
9.	A	**18.**	50		

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