SASKATCHEWAN PHYSICAL SCIENCE 20 · UNIT D · 25 QUESTIONS

Properties of 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 disturbance that transfers energy without transferring matter is called**

- A frequency
- B wave
- C amplitude
- D transverse wave

Understand It with Pulse | Flag a mistake

2 **Sound is an example of a**

- A transverse wave
- B longitudinal wave
- C surface wave only
- D electromagnetic wave

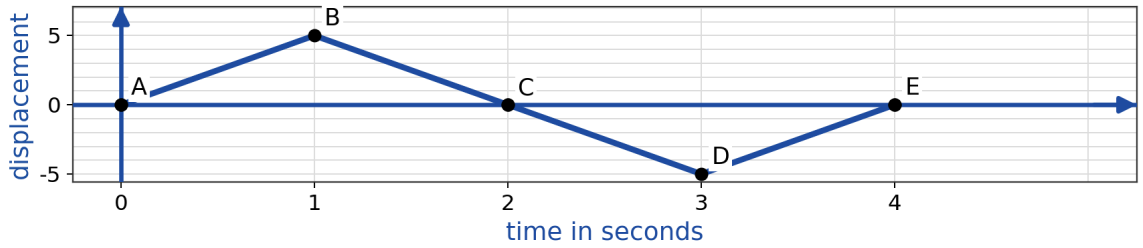
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3 **A wave has frequency 5 Hz and wavelength 4 m. Its speed, in metres per second, is _____**

ANSWER _____

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4 **The graph shows displacement of a wave over time. The period is the time between peaks. The displacement at 2 seconds is _____**



ANSWER _____

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5 **The distance between two matching points on a wave is called**

A amplitude

B transverse wave

C wavelength

D longitudinal wave

Understand It with Pulse | Flag a mistake

6 **Light is an example of a**

A longitudinal wave

B sound wave

C water wave only

D transverse wave

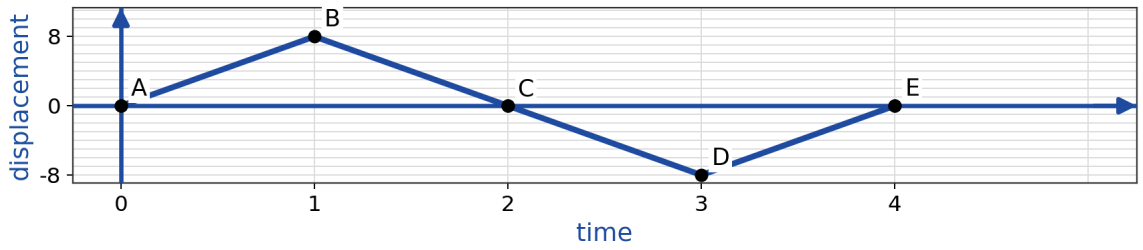
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7 **A wave has frequency 10 Hz and wavelength 3 m. Its speed, in metres per second, is ____**

ANSWER _____

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8 **The graph shows two waves with the same frequency. The wave with larger amplitude carries**



- **A** more energy
- **B** less energy
- **C** the same energy
- **D** no energy

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9 **The number of waves passing a point per second is called**

- **A** transverse wave
- **B** frequency
- **C** longitudinal wave
- **D** reflection

Understand It with Pulse | Flag a mistake

10 **Increasing the frequency of a wave while speed stays the same makes wavelength**

- A longer
- B unchanged
- C shorter
- D zero

Understand It with Pulse | Flag a mistake

11 **A wave has frequency 20 Hz and wavelength 2 m. Its speed, in metres per second, is ____**

ANSWER _____

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12 **The maximum displacement of a wave from its rest position is called**

A longitudinal wave

B reflection

C refraction

D amplitude

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13 **Larger amplitude means the wave carries**

A more energy

B less energy

C no energy

D slower speed

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14 **A wave travels at 340 m per second with wavelength 17 m. Its frequency, in hertz, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A wave in which particles move perpendicular to wave travel is called**

A reflection

B transverse wave

C refraction

D diffraction

Understand It with Pulse | Flag a mistake

16 **Refraction happens because a wave**

A stops completely

B gains mass

C changes speed in a new medium

D loses frequency

Understand It with Pulse | Flag a mistake

17 **A wave travels at 300 m per second with wavelength 15 m. Its frequency, in hertz, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A wave in which particles move parallel to wave travel is called**

A refraction

B diffraction

C period

D longitudinal wave

Understand It with Pulse | Flag a mistake

19 **The unit of frequency is the**

A hertz

B metre

C second

D joule

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20 **A wave has frequency 8 Hz and wavelength 5 m. Its speed, in metres per second, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **The bouncing of a wave off a surface is called**

A diffraction

B reflection

C period

D wave

Understand It with Pulse | Flag a mistake

22 **A wave has frequency 25 Hz and wavelength 4 m. Its speed, in metres per second, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **The bending of a wave as it changes speed in a new medium is called**

- **A** period
- **B** wave
- **C** refraction
- **D** wavelength

Understand It with Pulse | Flag a mistake

24 **A wave travels at 200 m per second with wavelength 10 m. Its frequency, in hertz, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **The spreading of a wave around an obstacle or through an opening is called**

A wave

B wavelength

C frequency

D diffraction

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. B
2. B
3. 20
4. 0
5. C
6. D
7. 30
8. A
9. B
10. C
11. 40
12. D
13. A
14. 20
15. B
16. C
17. 20
18. D
19. A
20. 40
21. B
22. 100
23. C
24. 20
25. D

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