ENGLAND GCSE PHYSICS EDEXCEL FOUNDATION · UNIT 4 · 25 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 guitar is plugged into an amplifier. What flows through the cable?**

- A light
- B sound waves travelling along it
- C electric current
- D water

Understand It with Pulse | Flag a mistake

2 **A passenger aeroplane takes off. Which force lifts it up?**

- A lift
- B weight
- C drag
- D thrust

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3 **A kite is held by a string. What force does the string exert?**

- A air resistance
- B friction
- C gravity
- D tension

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4 **A wristwatch measures time. What is the unit of time?**

- A the second
- B the minute
- C the day
- D the hour

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5 **A Ferris wheel turns. What force keeps a person moving in a circle?**

- A air resistance pushing them back
- B centripetal force
- C friction only, gripping the seat
- D gravity only, pulling them down

Understand It with Pulse | Flag a mistake

6 **A set square measures angles. What is a right angle?**

- A 45 degrees
- B 90 degrees
- C 180 degrees
- D 360 degrees

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7 **What does the amplitude of a sound wave decide?**

A its pitch

B its wavelength

C its speed in air

D its loudness

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8 **A wave travels at 30 m/s with a wavelength of 5 m. What is its frequency?**

A 150 Hz

B 6 Hz

C 12 Hz

D 3 Hz

Understand It with Pulse | Flag a mistake

9 **What does sound need to travel through?**

A air only

B a vacuum

C a medium

D water only

Understand It with Pulse | Flag a mistake

10 **Which type of wave is a light wave?**

A longitudinal

B transverse

C sound

D seismic

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11 **A wave has a frequency of 4 Hz and a wavelength of 10 m. What is its speed?**

- A 20 m/s
- B 80 m/s
- C 14 m/s
- D 40 m/s

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12 **A wave has a frequency of 2 Hz and a wavelength of 4 m. What is the wave speed?**

- A 16 m/s
- B 8 m/s
- C 13 m/s
- D 4 m/s

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13 **How is ultrasound used in medicine?**

- A to see inside the body
- B to heat the body
- C to make X-ray pictures of bones
- D to cut skin

Understand It with Pulse | Flag a mistake

14 **A wave travels at 40 m/s with a wavelength of 4 m. What is its frequency?**

- A 160 Hz
- B 10 Hz
- C 5 Hz
- D 20 Hz

Understand It with Pulse | Flag a mistake

15 **What is an echo?**

A a high pitched sound

B a refracted sound wave

C a reflected sound wave

D a loud sound

Understand It with Pulse | Flag a mistake

16 **A wave has a frequency of 5 Hz and a wavelength of 4 m. What is its speed?**

A 9 m/s

B 20 m/s

C 40 m/s

D 10 m/s

Understand It with Pulse | Flag a mistake

17 **A wave has a frequency of 4 Hz and a wavelength of 4 m. What is the wave speed?**

- A 16 m/s
- B 21 m/s
- C 8 m/s
- D 32 m/s

Understand It with Pulse | Flag a mistake

18 **What type of wave is sound?**

- A electromagnetic
- B transverse
- C standing
- D longitudinal

Understand It with Pulse | Flag a mistake

19 **A wave travels at 20 m/s with a wavelength of 2 m. What is its frequency?**

- A 10 Hz
- B 20 Hz
- C 5 Hz
- D 40 Hz

Understand It with Pulse | Flag a mistake

20 **What is the period of a wave?**

- A the distance between peaks
- B the height of the wave
- C the number of waves per second
- D the time for one wave to pass

Understand It with Pulse | Flag a mistake

21 **A wave has a frequency of 10 Hz and a wavelength of 5 m. What is its speed?**

- A 15 m/s
- B 100 m/s
- C 50 m/s
- D 25 m/s

Understand It with Pulse | Flag a mistake

22 **A wave has a frequency of 4 Hz and a wavelength of 2 m. What is the wave speed?**

- A 8 m/s
- B 4 m/s
- C 13 m/s
- D 16 m/s

Understand It with Pulse | Flag a mistake

23 **What is the law of reflection?**

A angle of incidence is double the angle of reflection

B angle of incidence equals angle of reflection

C angle of reflection is always 90 degrees

D light always reflects straight back

Understand It with Pulse | Flag a mistake

24 **What are ultrasound waves?**

A radio waves

B light waves

C sound waves below human hearing

D sound above human hearing

Understand It with Pulse | Flag a mistake

25

A wave travels at 10 m/s with a wavelength of 2 m. What is its frequency?

A 20 Hz

B 10 Hz

C 5 Hz

D 2.5 Hz

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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