ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY FOUNDATION · UNIT 23 · 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 so it can be fixed.

1 **A passenger aeroplane cruises. Which force opposes its motion?**

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

Understand It with Pulse | Flag a mistake

2 **A wristwatch ticks every second. How many ticks in a minute?**

- A 12
- B 30
- C 100
- D 60

Understand It with Pulse | Flag a mistake

3 **A kite rises higher. What happens to the wind speed usually?**

A it increases

B it becomes zero

C it decreases

D it stays the same

Understand It with Pulse | Flag a mistake

4 **A guitar string is tightened. What happens to the pitch?**

A it rises

B it falls

C it disappears

D it stays the same

Understand It with Pulse | Flag a mistake

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

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7 **A wave travels at 40 m/s with a wavelength of 10 m. What is its frequency?**

- A 400 Hz
- B 8 Hz
- C 2 Hz
- D 4 Hz

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

- A 4 m/s
- B 16 m/s
- C 8 m/s
- D 6 m/s

Understand It with Pulse | Flag a mistake

9

Which type of wave is a sound wave?

A electromagnetic

B transverse

C standing

D longitudinal

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10

Which type of radiation can cause sunburn?

A ultraviolet

B microwaves

C infrared

D radio waves

Understand It with Pulse | Flag a mistake

11 **A wave travels at 20 m/s with a wavelength of 4 m. What is its frequency?**

- A 10 Hz
- B 2.5 Hz
- C 80 Hz
- D 5 Hz

Understand It with Pulse | Flag a mistake

12 **What is the wavelength of a wave?**

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

Understand It with Pulse | Flag a mistake

13 **Which type of radiation is used to cook food?**

A microwaves

B ultraviolet

C X-rays

D gamma rays

Understand It with Pulse | Flag a mistake

14 **A wave has a frequency of 2 Hz and a wavelength of 5 m. What is its speed?**

A 20 m/s

B 10 m/s

C 7 m/s

D 5 m/s

Understand It with Pulse | Flag a mistake

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

A the time for one wave to pass

B the number of waves per second

C the height of the wave

D the distance between peaks

Understand It with Pulse | Flag a mistake

16 **What is the speed of sound in air?**

A 300000000 m/s

B 340 m/s

C 1000 m/s

D 150 m/s

Understand It with Pulse | Flag a mistake

17 **What do all electromagnetic waves travel at?**

A the speed of light

B the speed of sound

C the speed of the wave

D different speeds

Understand It with Pulse | Flag a mistake

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

A light always reflects straight back

B angle of incidence equals angle of reflection

C angle of reflection is always 90 degrees

D angle of incidence is double the angle of reflection

Understand It with Pulse | Flag a mistake

19 **A wave has a frequency of 5 Hz and a wavelength of 2 m. What is its speed?**

- A 7 m/s
- B 5 m/s
- C 20 m/s
- D 10 m/s

Understand It with Pulse | Flag a mistake

20 **What is the unit of frequency?**

- A the second
- B the metre
- C the hertz
- D the joule

Understand It with Pulse | Flag a mistake

21 **What is an echo?**

A a refracted sound wave

B a reflected sound wave

C a loud sound

D a high pitched sound

Understand It with Pulse | Flag a mistake

22 **A wave travels at 30 m/s with a wavelength of 10 m. What is its frequency?**

A 300 Hz

B 3 Hz

C 1.5 Hz

D 6 Hz

Understand It with Pulse | Flag a mistake

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

- A 50 m/s
- B 12.5 m/s
- C 10 m/s
- D 25 m/s

Understand It with Pulse | Flag a mistake

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

- A seismic
- B sound
- C transverse
- D longitudinal

Understand It with Pulse | Flag a mistake

25

A wave travels at 40 m/s with a wavelength of 5 m. What is its frequency?

A 200 Hz

B 8 Hz

C 4 Hz

D 16 Hz

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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