ENGLAND GCSE COMBINED SCIENCE EDEXCEL HIGHER · UNIT 20 · 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 wristwatch measures time. What is the unit of time?**

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

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2 **A set square is used to measure an angle of reflection. What is the angle of incidence equal to?**

- A double the angle of reflection
- B zero
- C the angle of reflection
- D half the angle of reflection

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

- A it decreases
- B it becomes zero
- C it increases
- D it stays the same

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4 **A guitar is plugged into an amplifier. What flows through the cable?**

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

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

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

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6 **A Ferris wheel is at the top. What is the person's height like?**

- A at zero
- B at its smallest
- C at its greatest
- D unchanged

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

A the second

B the joule

C the metre

D the hertz

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

A light always reflects straight back

B angle of reflection is always 90 degrees

C angle of incidence is double the angle of reflection

D angle of incidence equals angle of reflection

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

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

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

- A 300000000 m/s
- B 1000 m/s
- C 340 m/s
- D 150 m/s

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

- A 30 m/s
- B 12 m/s
- C 50 m/s
- D 25 m/s

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12 **What are ultrasound waves?**

- A sound above human hearing
- B sound waves below human hearing
- C light waves
- D radio waves

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

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

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

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

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15 **A wave has a frequency of 10 Hz and a wavelength of 2 m. What is its speed?**

- A 10 m/s
- B 12 m/s
- C 20 m/s
- D 40 m/s

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

- A water only
- B a vacuum
- C air only
- D a medium

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17 **A wave has a frequency of 20 Hz and a wavelength of 10 m. What is the wave speed?**

- A 100 m/s
- B 400 m/s
- C 205 m/s
- D 200 m/s

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

- A its wavelength
- B its pitch
- C its loudness
- D its speed in air

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19 **A wave travels at 30 m/s with a wavelength of 2 m. What is its frequency?**

- A 15 Hz
- B 7.5 Hz
- C 30 Hz
- D 60 Hz

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

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

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

- A 20 m/s
- B 40 m/s
- C 25 m/s
- D 10 m/s

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22 **Why can sound not travel through a vacuum?**

- A it is too slow
- B it needs particles
- C it needs light
- D it is blocked by glass

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

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

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

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

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25

What is an echo?

A a reflected sound wave

B a refracted sound wave

C a high pitched sound

D a loud sound

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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