ENGLAND GCSE PHYSICS AQA FOUNDATION · UNIT 6 · 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 Ferris wheel turns slowly. A person on the wheel moves in a circle. What is the person's speed like?**

- A decreasing speed
- B zero speed
- C increasing speed
- D steady speed

Understand It with Pulse | Flag a mistake

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

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

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

- A it falls
- B it stays the same
- C it rises
- D it disappears

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

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

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

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

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6 **A set square is placed on a mirror. What happens to light hitting the mirror?**

- A it refracts
- B it is absorbed
- C it reflects
- D it passes through

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

- A 5 m/s
- B 20 m/s
- C 10 m/s
- D 15 m/s

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

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

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

- A 3 Hz
- B 150 Hz
- C 12 Hz
- D 6 Hz

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

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

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11 **Which type of radiation is used to take images of bones?**

A infrared

B microwaves

C ultraviolet

D X-rays

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12 **What do all electromagnetic waves travel at in a vacuum?**

A zero speed

B the speed of sound

C the speed of light

D different speeds

Understand It with Pulse | Flag a mistake

13 **What are ultrasound waves?**

A sound waves below human hearing

B sound above human hearing

C light waves

D radio waves

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

A angle of incidence is double the angle of reflection

B light always reflects straight back

C angle of incidence equals angle of reflection

D angle of reflection is always 90 degrees

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15 **Why does light bend when it enters a different material?**

A it loses energy

B its speed changes

C its colour changes

D it becomes sound

Understand It with Pulse | Flag a mistake

16 **What happens to the focal length if a convex lens is made more curved?**

A it gets longer

B it stays the same

C it becomes zero

D it gets shorter

Understand It with Pulse | Flag a mistake

17 **Which electromagnetic wave has the highest frequency?**

A gamma rays

B radio waves, which are the lowest

C infrared

D microwaves

Understand It with Pulse | Flag a mistake

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

A 25 m/s

B 20 m/s

C 40 m/s

D 10 m/s

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

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

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

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

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21 **Which type of radiation can cause sunburn?**

A microwaves

B ultraviolet

C radio waves

D infrared

Understand It with Pulse | Flag a mistake

22 **Which electromagnetic wave has the longest wavelength?**

A ultraviolet

B X-rays

C radio waves

D gamma rays, which are the shortest

Understand It with Pulse | Flag a mistake

23 **What does the frequency of a sound wave decide?**

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

Understand It with Pulse | Flag a mistake

24 **What is the normal in a refraction question?**

- A the edge of the block
- B the ray of light itself, in the glass
- C at right angles to the surface
- D a line along the surface

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25

What does a concave lens do to parallel rays of light?

A it reflects them back

B it spreads them apart

C it stops them

D it brings them together

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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