ENGLAND GCSE COMBINED SCIENCE EDEXCEL HIGHER · UNIT 20 · 10 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 flies at a steady speed and height. What is the resultant force on the aeroplane?**

- A 0 N
- B 1000 N
- C 10000 N
- D 5000 N

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

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

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

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

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

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

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

A to heat the body

B to see inside the body

C to cut skin

D to make X-ray pictures of bones

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6 **A kite flies in the wind. Which force holds the kite up?**

A lift

B thrust

C weight

D drag

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

- A 100 m/s
- B 50 m/s
- C 105 m/s
- D 200 m/s

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

- A 10 Hz
- B 2.5 Hz
- C 20 Hz
- D 5 Hz

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

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

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

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

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ANSWER KEY

1. A
2. C
3. A
4. D
5. B
6. A
7. A
8. D
9. D
10. C

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