ENGLAND GCSE PHYSICS AQA HIGHER · UNIT 5 · 10 QUESTIONS

Forces — 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 yellow school bus carries children to school. Which blood vessel carries blood away from the heart, like a bus leaving the station?**

- A a ventricle
- B a capillary
- C an artery
- D a vein

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2 **A passenger train travels at a steady speed. What is its acceleration?**

- A 0 m/s²
- B 1 m/s²
- C 9.8 m/s²
- D 10 m/s²

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3 **A bicycle is ridden uphill. Which energy store increases?**

- A thermal energy from friction
- B gravitational potential
- C kinetic energy of motion
- D elastic potential energy

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4 **What happens to a spring if it is stretched past its limit of proportionality?**

- A it stays stretched
- B it gets stronger
- C it stops stretching
- D it snaps at once

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5 **What is the weight of a 5 kg object on Earth? Use g = 10 N/kg.**

- A 50 N
- B 100 N
- C 5 N
- D 25 N

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

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

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7 **Which of these is a vector?**

A force

B distance

C time

D speed

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8 **Why does pressure in a liquid increase with depth?**

A more liquid above pushes down

B the container gets smaller

C the liquid gets thicker

D the liquid gets hotter as it gets deeper

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9 **An object speeds up from 10 m/s to 40 m/s in 10 seconds. What is its acceleration?**

- **A** 1.5 m/s²
- **B** 6 m/s²
- **C** 30 m/s²
- **D** 3 m/s²

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10 **A cardboard box sits on a floor. What is the force between the box and the floor?**

- **A** the friction between the surfaces
- **B** the air pressure all around it
- **C** the upthrust from the floor
- **D** the weight of the box

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ANSWER KEY

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

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