ENGLAND GCSE PHYSICS OCR TWENTY FIRST CENTURY HIGHER · UNIT 4 · 10 QUESTIONS

Explaining Motion — 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 passenger train carries people around the country. Which part of the blood is like the train, carrying oxygen around the body?**

A plasma

B white blood cells

C red blood cells

D platelets

Understand It with Pulse | Flag a mistake

2 **A tennis ball is hit across a court. Which force slows the ball down in the air?**

- A friction with the ground
- B air resistance
- C gravity
- D the hit

Understand It with Pulse | Flag a mistake

3 **A force of 500 N acts on an area of 2 square metres. What is the pressure?**

- A 125 Pa
- B 500 Pa
- C 250 Pa
- D 255 Pa

Understand It with Pulse | Flag a mistake

4 **A Ferris wheel turns slowly. A person on the wheel moves in a circle. What is the person's speed like?**

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

Understand It with Pulse | Flag a mistake

5 **An object travels 200 m in 40 seconds. What is its speed?**

- A 8000 m/s
- B 5 m/s
- C 2.5 m/s
- D 10 m/s

Understand It with Pulse | Flag a mistake

6 **What is the braking distance?**

A the distance travelled while the driver reacts

B the distance between two cars

C the distance travelled while the brakes act

D the length of the road

Understand It with Pulse | Flag a mistake

7 **A 10 kg trolley moves at 4 m/s. What is its momentum?**

A 40 kg m/s

B 20 kg m/s

C 80 kg m/s

D 45 kg m/s

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8 **Why do crash helmets have a soft lining?**

A it lengthens the impact time

B it makes the helmet stronger

C it keeps the head warm

D it makes the helmet lighter

Understand It with Pulse | Flag a mistake

9 **A door is hard to push open near its hinges. Why?**

A the handle is too far away

B the door is heavier near the hinges

C the hinges push back harder

D the moment is small

Understand It with Pulse | Flag a mistake

10 **A force of 25 N acts 5 m from a pivot. What is the moment of the force?**

- A 135 Nm
- B 125 Nm
- C 62 Nm
- D 250 Nm

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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